Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: M00-C-1420-3637

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [✓] GAS WELL [✓] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

2. NAME OF OPERATOR: Hrubetz Oil Company

9. WELL NO.: 1-28 Cuthair

3. ADDRESS OF OPERATOR: c/o Steedley & Associates, P.O. Box 885, Worland, WY 82401

10. FIELD AND POOL, OR WILDCAT: ~~Wildcat~~ UNDESIGNATED

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 660' FEL 660' FSL
At proposed prod. zone: same SESE

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 28, T38S, R22E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 14 miles south of Blanding, Utah

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 660'

16. NO. OF ACRES IN LEASE: 160

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 6500' PARADOX SALT

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4869' GR

22. APPROX. DATE WORK WILL START*: Upon Approval

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|---|---|---|---|---|
| 12 ¼" | 8 5/8" | 24# K55 STC | 1600' | 1000 SKS |
| 7 7/8" | 5 1/2" | 20# K55 STC | 6500' | 250 SKS |

1. Propose to drill 12¼" hole to 1600 ', set 8 5/8" casing and cement to surface.
2. Drill 7 7/8" hole to 6500 ' or TD; if productive, set 5½" casing at T.D. and cement with 250 sacks.
This will be a Desert Creek Test

Exhibits attached:
A. Location and Elevation Plot.
B. Ten Point Compliance Program.
C. Blowout Preventer Diagram.
D. Multipoint Requirement for A.P.D.
E. Access Road Map.
F. Radius Map.
G. Drill Rig Layout with Cross Sections.

RECEIVED
SEP 12 1983
DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED R E Thompson TITLE Drilling Manager DATE 9-7-83

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STEEDLEY & ASSOCIATES
ENGINEERING SERVICES
P.O. BOX 885
WORLAND, WYOMING 82401

DICK STEEDLEY, PRES.
BUS. (307) 347-~~3942~~ 3593
WORLAND, WYOMING 82401

WATER PERMITS
LAND LEASE WORK
SURFACE INSPECTIONS
FEDERAL N.T.L. 6 PERMITTING
GEOPHYSICAL PERMITS & SURVEYS

HRUBETZ OIL COMPANY
#1-28 Cuthair
Sec. 28, T38S, R22E
San Juan County, Utah

# DRILLING PROGNOSIS

1. Surface Formation:
   Morrison.

2. and 3. Geologic Markers and Anticipated Oil, Gas & Water Zones:

| Formation | Depth | Remarks |
|---|---|---|
| Entrado | 1,195' | |
| Shinarump | 3,037' | |
| Ismay | 6,050' | |
| Desert Creek | 6,310' | Oil or Gas |
| Paradox Salt | 6,450' | |
| Total Depth | 6,500' ✓ | |

4. Proposed Casing Program:

| Size | Grade | Wt/Ft | Condition | Depth Set |
|---|---|---|---|---|
| 8 5/8" | K-55STC | 24# | New | 1,600' |
| 5 1/2" | K-55 STC | 20# | New | 6,500' |

5. Operator's Minimum Specifications For Pressure Control:

Exhibit "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the full working pressure after nippling up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period and blind rams and with annular preventer each time pipe is pulled out of the hole.

Accessories to BOP's include an upper and a lower kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. Type and Characteristics of the Proposed Circulating Muds:

The mud system will be gel-chemical with adequate stocks of sorptive agents and other materials on site to handle any anticipated down-hole problem as well as possible spills of fuel and oil on the surface.

(a) 0 - 1,200' spud with mud or water as determined at well site.

(b) 1,200' - 6,500' fresh water or mud as necessary for hole conditions.

Weight of mud: 8.8 - 9.6#/gal.
Viscosity: 35 to 45 sec.
Water Loss: Less than 10 cc.

7. Auxillary Equipment:

A. A kelly cock will be kept in the string at all times.
B. A float will not be used.
C. A mud logging unit or gas detecting unit will be used for monitoring system.
D. A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. Testing, Logging and Coring Programs to be Followed:

A. A test is expected in the Paradox Salt horizon, the primary objective. Other zones will be tested, as needed.
B. Logging Program:
DIL - GR -SP) Tanden - SCP - T.D.
BHC - Sonic - GR)
CNL - FDC - GR - TD - 1,000'
C. Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted.

9. Potential Hazards:

No abnormal pressures, temperatures or $H_2S$ anticipated.

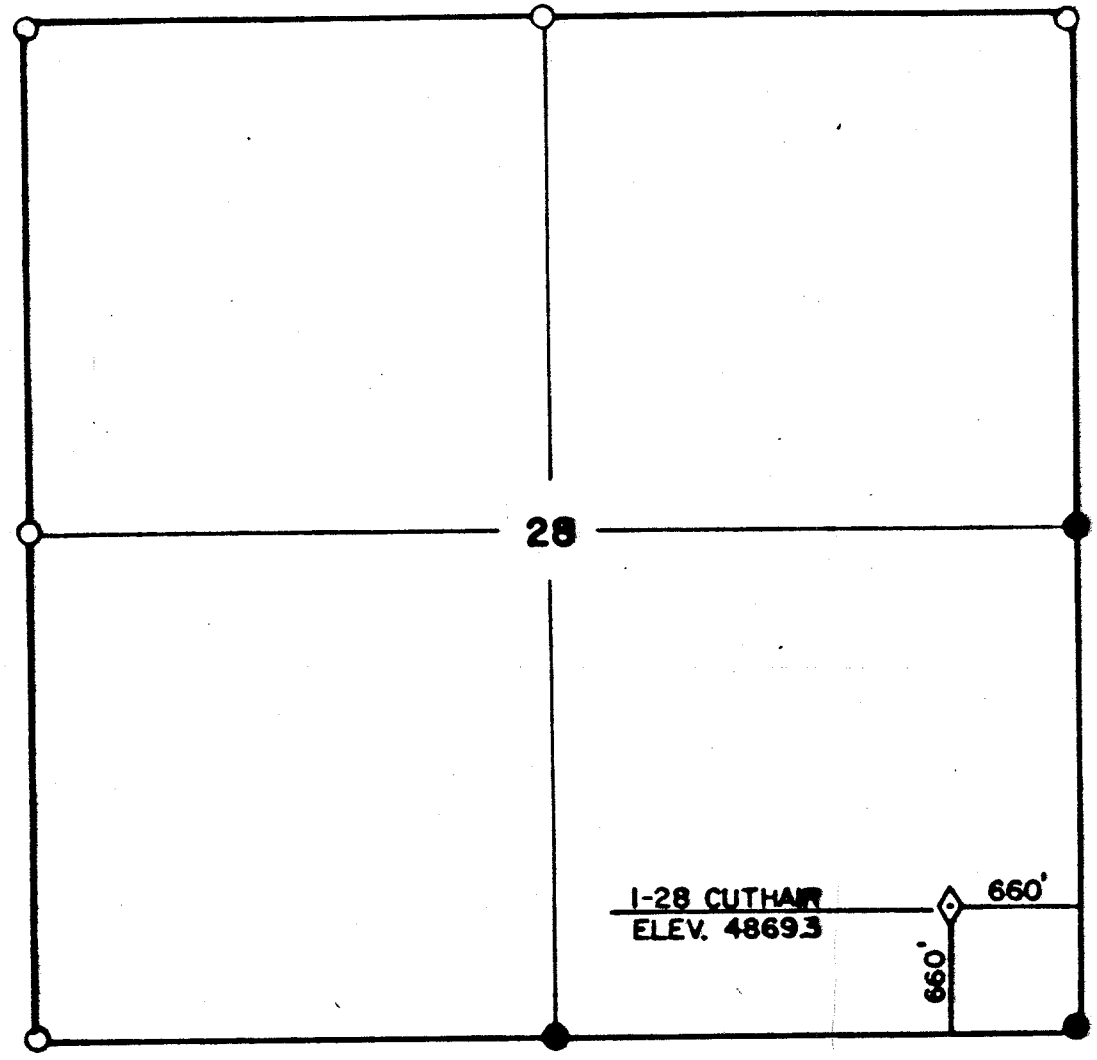
10. Anticipated Starting Date:

On Approval.

Duration of Operations:

The operations should be completed within 90 days after spudding the well and drilling to the casing point.

R. 22 E.




SCALE 1" = 1000'

## CERTIFICATE OF SURVEYOR

STATE OF UTAH
COUNTY OF SAN JUAN } SS

I, Dick R. Griffin of Rock Springs, Wyoming, hereby certify that this map was made from notes taken during an actual survey under my direct supervision on August 31 19[illegible], and that it shows correctly the location of I-28 CUTHAIR.

UTAH REG 5120

-NOTE-

- ● FOUND CORNER
- ⊙ PROPORTIONED CORNER
- ◊ WELL LOCATION

JOB NO. 815

# PLAT OF DRILLING LOCATION

## HRUBETZ OIL COMPANY
## I-28 CUTHAIR

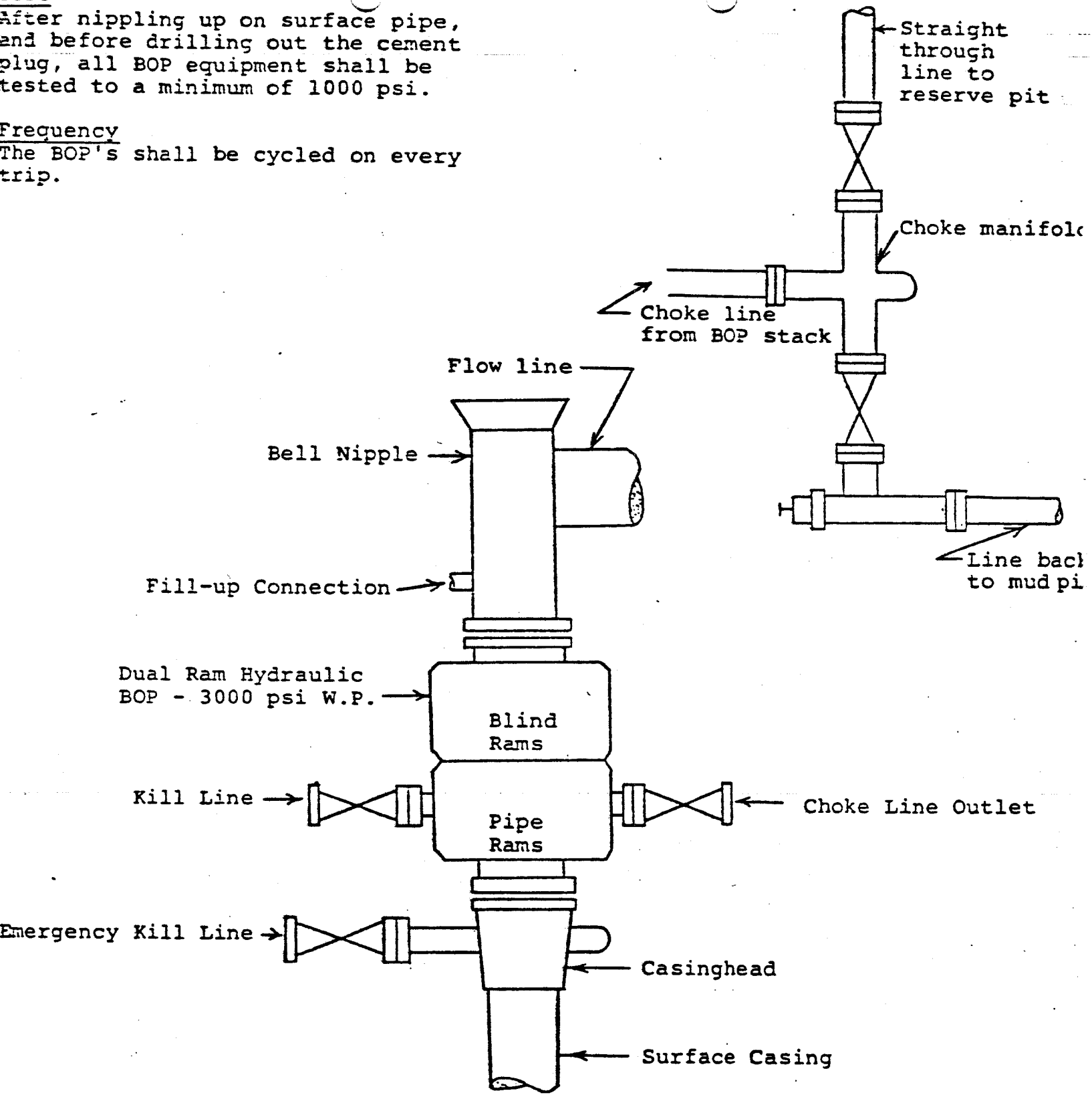
C SE 1/4, SE 1/4, SEC. 28, T 38 S, R 22 E,
COLO. G. MERD., SAN JUAN COUNTY, UTAH

Prepared by:
D. R. GRIFFIN & ASSOCIATES
P.O. BOX 1059 (307) 362-5028
ROCK SPRINGS, WYOMING 82901

LOW PRESSURE WELLS

Test
After nippling up on surface pipe, and before drilling out the cement plug, all BOP equipment shall be tested to a minimum of 1000 psi.

Frequency
The BOP's shall be cycled on every trip.




Schematic Drawing
3000 psi - BOP Equipment

STEEDLEY & ASSOCIATES
ENGINEERING SERVICES
P.O. BOX 885
WORLAND, WYOMING 82401

DICK STEEDLEY, PRES.
BUS. (307) 347-3593
WORLAND, WYOMING 82401

WATER PERMITS
LAND LEASE WORK
SURFACE INSPECTIONS
FEDERAL N.T.L. 6 PERMITTING
GEOPHYSICAL PERMITS & SURVEYS

HRUBETZ OIL COMPANY
#1-28 Cuthair
Sec. 21, T38S, R22E
San Juan County, Utah

## MULTIPOINT SURFACE USE AND OPERATIONS PLAN

1. Existing Roads - See Exhibit "A"

   A. The proposed wellsite is staked and the surveyors plat is attached. Four 200' reference stakes are present.
   B. Starting at Blanding, Utah, go south on state highway 47 11 miles, then southwesterly on graded road for 1.8 miles then left on unimproved road for approximately .6 mile to the well location. The access road crosses B.L.M. land for approximately .2 mile in the NWSW Sec. 27, T38S, R22E. We are making application for a right-of-way for this part of the road by way of this A.P.D. A copy of this A.P.D., along with filing fee, is being forwarded to the B.L.M. office in Monticello, Utah.
   C. All access roads are shown in red on Exhibit "E".
   D. All roads within a 3-mile radius are shown on Exhibit "F".
   E. We plan to upgrade the existing roads by blading with approximately .2 mile into the location requiring extensive construction. No culverts will be necessary; all drainages will have drive through crossings.

2. Planned Access Roads

   1. Width: 18' wide running surface will be flat bladed to remove brush; construction will be limited to 22'.
   2. Maximum grade: 13%.
   3. Turnouts: None.
   4. Drainage design: None.
   5. Culverts: None.
   6. Surfacing materials: We do not plan to surface this road at this time. Surfacing material will not be placed on the access road or location without prior B.I.A. approval.
   7. The operator or his contractor will contact the San Juan Resources Area office in Monticello, Utah (801) 587-2201 48 hours prior to beginning any work on public land.
   8. The dirt contractor will be furnished with a copy of the Surface Use Plan and any additional B.I.A. stipulations prior to the start of any work.
   9. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed must be approved in advance.

3. Location of Existing Wells

All existing wells known in the area are shown directly on Exhibit "F" within the 2-mile radius.

1. Water wells: None.
2. Abandoned wells: None.
3. Temporarily abandoned wells: None.
4. Disposal wells: None.
5. Drilling wells: None.
6. Producing wells: None.
7. Shut-in wells: None.
8. Injection wells: None.
9. Monitoring or observation wells: None.

4. Location of Exising and/or Proposed Facilities

A. Hrubetz Oil Company does not have any production facilities within one mile of this location.
   1. Tank batteries: None.
   2. Production facilities: None.
   3. Oil gathering lines: None.
   4. Gas gathering lines: None.
   5. Injuection lines: None.
   6. Disposal lines: None.

B. It is contemplated that, in the event of production, all new facilities will be easily accommodated on the drill pad on the solid base of cut and not placed on the fill areas.
   1. No additional flagging will be needed as all facilities will be on the drill pad.
   2. The drill pad will be 350' long and 200' wide. The dimensions and location of drilling and future production facilities are shown on Exhibit "G".
   3. Concrete, if needed, and any gravels needed will be purchased from private sources.
   4. All pits will be fenced to minimize any hazared to sheep, cattle, antelope and other animals that graze the area. Wire mesh covering will be used as needed, if water or other fluid is produced.

C. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilation section. Enough topsoil will be retained to reclaim the remainder of the location at a future date. The remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

5. Water Supply

A. The water haul company will provide all permits and make arrangements to furnish water.
B. The water will be transported by tank truck over existing roads from the source to the well site.
C. No water well will be drilled.

6. Source of Construction Materials

A. Native soil from the well site will be used to build this location.
B. No construction material will be obtained from Federal or Indian land.
C. No sand or gravel will be needed at this time.
D. No access road will be needed for construction material.

7. Handling Waste Disposals

1. Drill cuttings will be buried in the reserve pit when dry.
2. Drilling fluids will be handled in the reserve pit.
3. Any produced fluid during drilling test or while making production tests will be collected in test tank. Any unavoidable spills will be cleaned up and removed.
4. Any sewage will be covered or removed and chemical toilets will be provided.
5. Garbage, wastes and non-flammable wastes, salts and other chemicals produced or used during drilling or testing will be handled in the reserve pit or kept in the trash burn pit.
6. Immediately on completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash pit. Nonburnable debris will be haulded to a local town dump site.
7. A burning permit will be required before burning trash between May 1 and October 31. This can be acquired by contacting the State Fire Warden, John Baker (801) 587-2705.

8. Ancillary Facilities

No proposed airstrip, camp, or other facility will be built during the drilling or completion of this well.

9. Well Site Layout

1. Cross sections and cuts and fills are shown on Exhibit "G".
2. The top 4" of soil material will be removed from the location and stockpiled on the west side of the location. Topsoil along access will be reserved in place. Mud tanks, reserve, burn, trash, and flare pits, pipe racks, living facilities and soil stockpiles are shown on Exhibit "G". A trash pit will be constructed near the mud tanks with steep sides and dug at least 6' into solid undisturbed material. It will be totally enclosed with a fine mesh wire before the rig moves onto the location.
3. Rig orientation, parking areas, production facilities and access road are all shown on Exhibit "G". All above ground production facilities will be painted buff or beige.
4. The reserve pit will not be lined. Three sides of the reserve pit will be fenced with 4' of sheep wire and two strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is complete. The fence will be kept in good repair while the pit is drying.

10. Plans for Restoration

A. The operator or his contractor will contact the Ute Mountain Ute office in Toawac, CO (303) 565-8931, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.

B. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
C. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography.
D. The stockpiled topsoil will be evenly distributed over the disturbed area.
E. All disturbed areas will be scarified with the contour to a depth of 4 to 6 inches.
F. Seed will be drilled at a time specified by the B.I.A. with 2# of Indian Ricegrass, 1# of Crested Wheatgrass, 1# Fourwing Saltbrush, and 1# Sand Dropseed per acre.

11. Other Information

1. Topography: This well site is located on a ridge at an elevation of 4,869'. Drainage from this area would be into Right Hand Fork of Cottonwood Wash.

   Soil Characteristics and Geologic Features: This soil is a buff-colored sandy clay with sandstone above the location area.

   Flora: The flora consists of sagebrush, cedar, juniper, brome grass, snakeweed, Mormon tea, rabbit brush, and prickly pear cactus.

   Fauna: Deer, rabbits, reptiles, coyotes and skunks make up most of the wild life, while cattle were the only domestic species in evidence.

2. Type of Surface Use Activity: The primary use of the surface is grazing.

   Surface Ownership of all Involved Lands: The surface ownership of all involved land is Indian land under the jurisdiction of the Bureau of Indian Affairs.

3. Occupied Dwellings: The nearest occupied dwelling is the village of White Mesa, about 2 miles northeast of this location.

   Archeological or Historical Sites: There are no known archeological or historical sites in the area of this well site. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resource Area office will be contacted. All employees working will be subject to prosecution if they are caught disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archeological sites will only be done if damage occurs.

12. Lessee's or Operator's Representative

**Dick Steedley
Agent Consultant for
Hrubetz Oil Company
Worland, Wyoming
Office Phone (307) 347-3593

Robert E. Stauffer
Drilling Manager for
Hrubetz Oil Company
Dallas, Texas
Phone (214) 363-7833

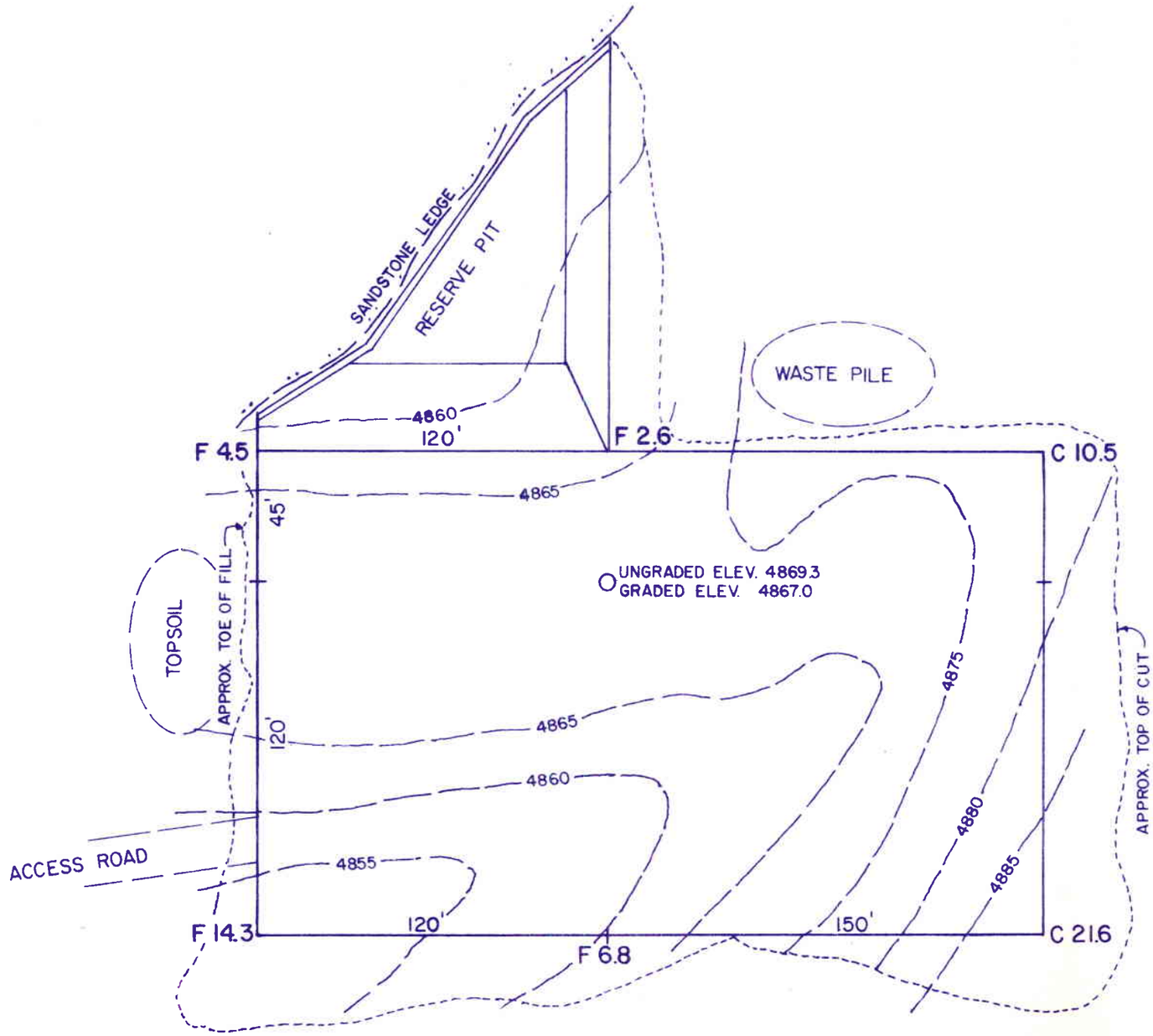
**Contact (307) 762-3313 (home phone) for predrill inspection and additional data if required.

13. Certification

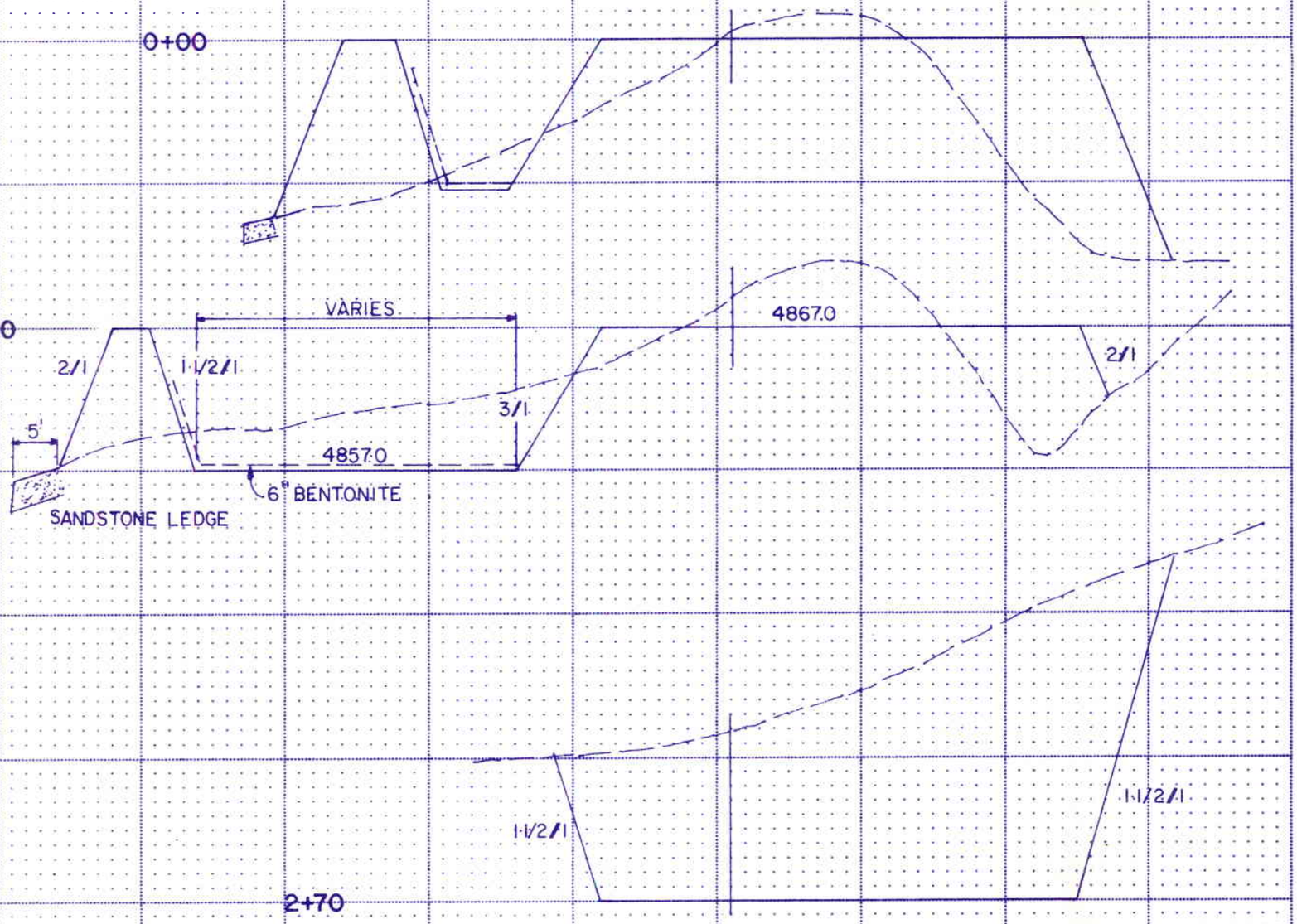
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Hrubetz Oil Company, and its contractors in conformity with this plan and the terms and conditions under which it is approved.

9/7/83
Date

Dick Steedley, Agent for Hrubetz Oil Company


SANDSTONE LEDGE
RESERVE PIT
WASTE PILE
4860
120'
F 4.5
F 2.6
C 10.5
4865
45'
APPROX. TOE OF FILL
TOPSOIL
UNGRADED ELEV. 4869.3
GRADED ELEV. 4867.0
4875
4865
120'
4860
4880
APPROX. TOP OF CUT
ACCESS ROAD
4855
4885
120'
150'
F 14.3
F 6.8
C 21.6
0+00
1+20
2+70
LAYDOWN — N 76° 00' E
SCALE: 1" = 50'

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.




## DIRT WORK

PAD—
CUT = 8,982 CY
FILL = 8,982 CY

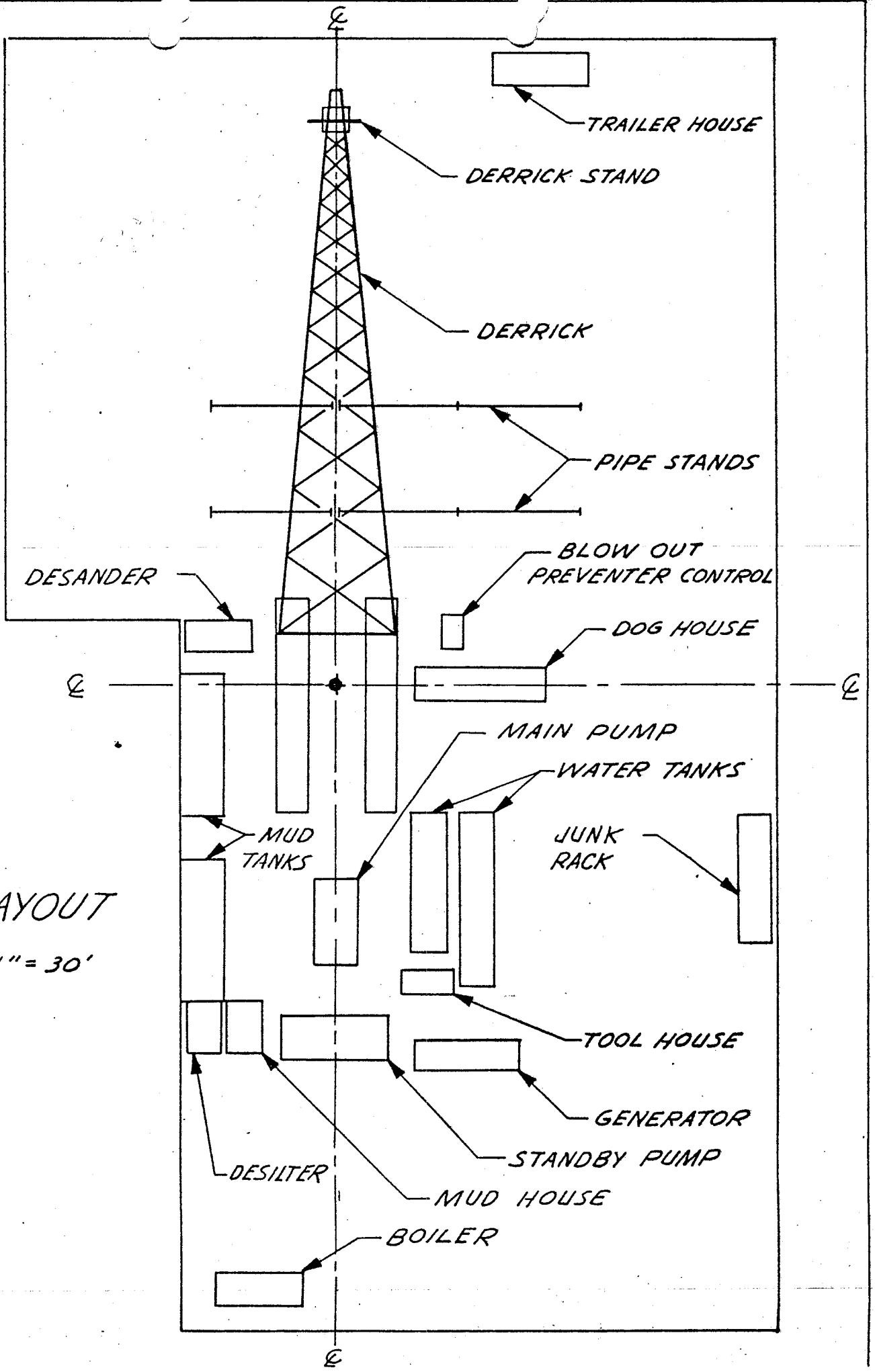
PIT—
CUT = 3,700 CY

NOTE: DIRT WORK QUANTITIES ARE APPROXIMATE. QUANTITIES MAY VARY 20% MORE OR LESS.

HRUBETZ OIL COMPANY
I-28 CUTHAIR
C SE 1/4, SE 1/4, SEC. 28, T 38 S, R 22 E.
SAN JUAN COUNTY, UTAH

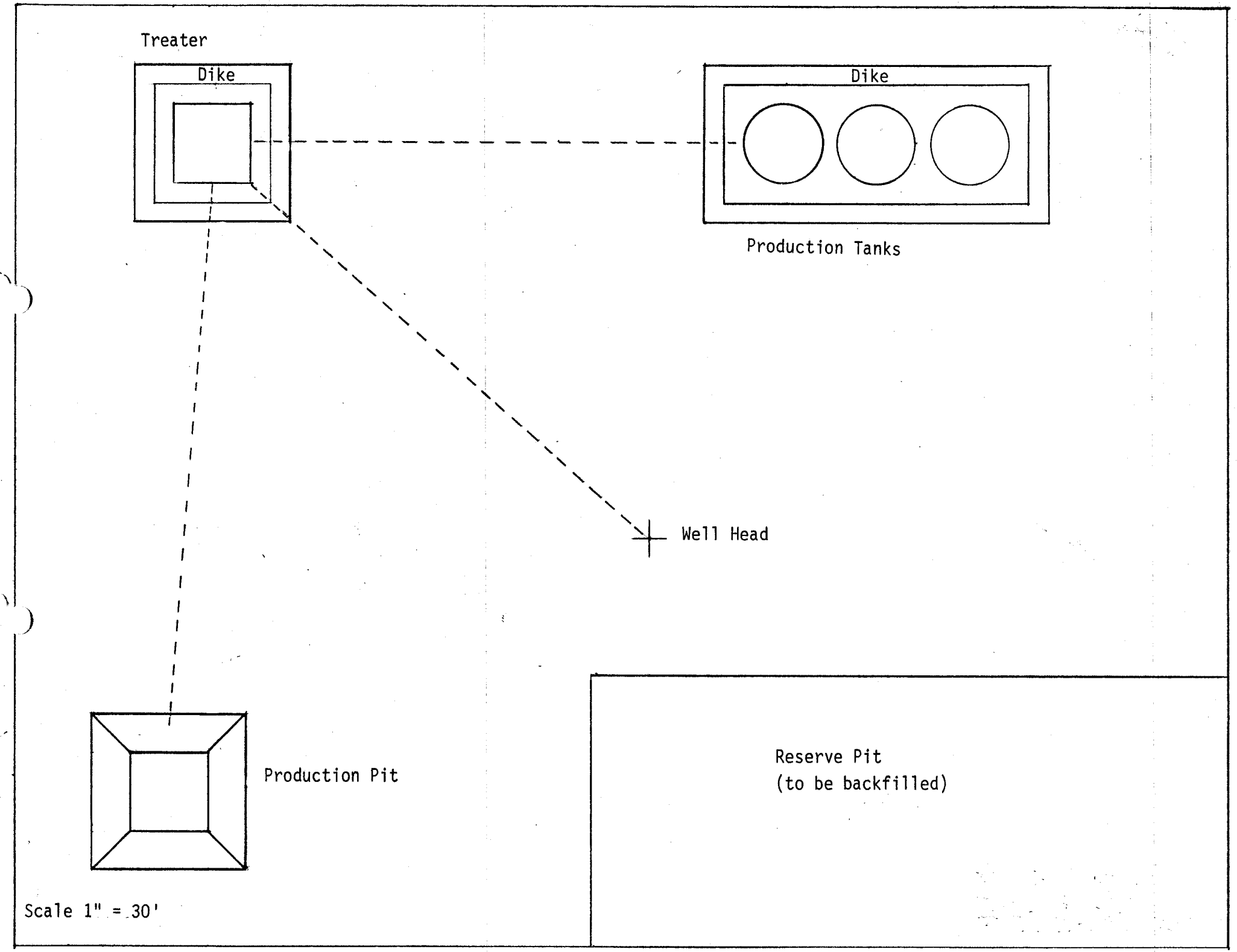
D.R. GRIFFIN & ASSOCIATES
P.O. BOX 1059
ROCK SPRINGS, WYOMING
(307) 362-5028
JOB No. 815

EXHIBIT V




# RIG LAYOUT

SCALE: 1" = 30'


Treater
Dike
Dike
Production Tanks
Well Head
Production Pit
Reserve Pit
(to be backfilled)
Scale 1" = 30'

OPERATOR HRUBETZ OIL CO DATE 9-15-83

WELL NAME CUTHAIR 1-28

SEC SESE 28 T 38S R 22E COUNTY SAN JUAN

43-037-30938
API NUMBER

INDIAN
TYPE OF LEASE

POSTING CHECK OFF:

☐ INDEX ☐ MAP ☐ HL

☐ NID ☐ ☐ 9-PI 5-83

PROCESSING COMMENTS:

NEW OPERATOR — THE ISMAY FORMATION IS SPACED FOR STAND UP 80'S (CAUSE #62) AND THIS APD IS FOR A 40 ACRE DRILLING UNIT WITH A DESERT CREEK TEST. NO OIL OR GAS WELLS WITHIN 4960'

CHIEF PETROLEUM ENGINEER REVIEW:

9/15/83

APPROVAL LETTER:

SPACING: ☐ A-3 _____ UNIT ☐ c-3-a _____ CAUSE NO. & DATE

☑ c-3-b ☐ c-3-c

SPECIAL LANGUAGE:

WATER —

~~PERFORATION, TESTING, OR~~ COMPLETION FOR PRODUCTION OF THE ISMAY FORMATION IS NOT AUTHORIZED, UNLESS AN AMENDED APD IS FILED TO EXTEND THE SIZE OF THE DRILLING UNIT TO A STAND UP 80 ACRE UNIT AS ORDERED BY CAUSE # 62 DATED 9-13-61

[✓] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

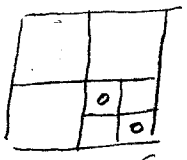
[✓] AUTHENTICATE LEASE AND OPERATOR INFORMATION

[✓] VERIFY ADEQUATE AND PROPER BONDING INDIAN

[✓] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

[ ] APPLY SPACING CONSIDERATION

STAND UP 80'S



[ ] ORDER #62 FOR ISMAY ONLY (9-13-61)

[ ] UNIT _____

[X] c-3-b

[ ] c-3-c

[✓] CHECK DISTANCE TO NEAREST WELL.

[✓] CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

[✓] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

[✓] IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

September 15, 1983

Hrubetz Oil Company
c/o Steedley & Associates
P. O. Box 885
Worland, Wy. 82601

RE: Well No. Cuthair 1-28
SESE Sec. 28, T.38S, R.22E
660' FSL, 660' FEL
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil/gas well is hereby granted in accordance with Rule C-3(b), General Rules and Regulations and Rules of Practice and Procedure. Prior to spudding, a copy of the Utah Division of Water Rights (Phone No. 801-533-6071) approval for use or purchase of drilling water must be submitted to this office, otherwise approval is void. Completion for production of the Ismay Formation is not authorized, unless an amended APD is filed to extend the size of the drilling unit to a stand up 80 acre unit as ordered by Cause No. 62 dated September 13, 1961.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30938.

Sincerely,

Norman C. Stout
Administrative Assistant

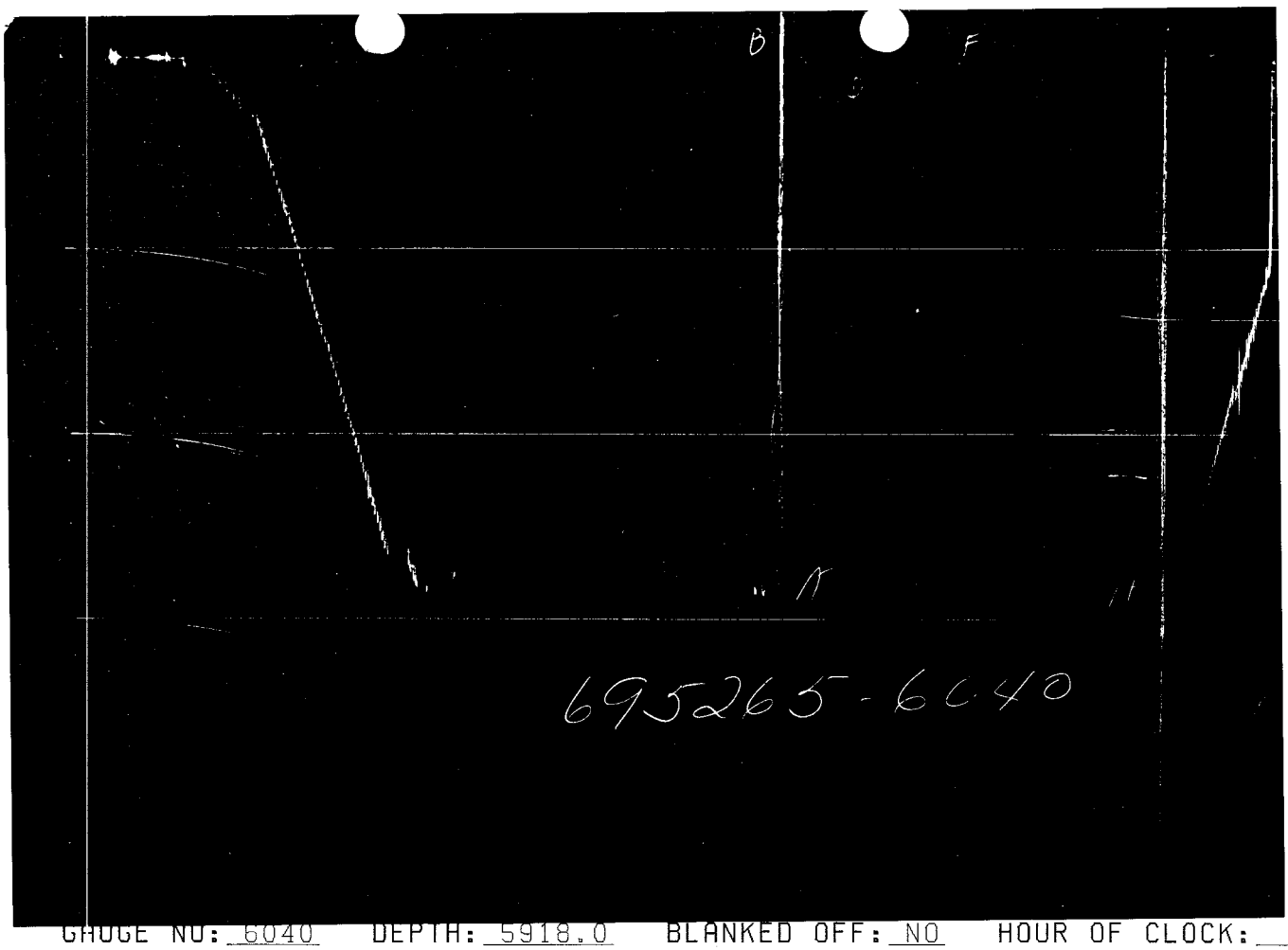
NCS/as
cc: Branch of Fluid Minerals
BLA

| LEGAL LOCATION SEC. - TWP. - RNG. | FIELD AREA | COUNTY | STATE |
|---|---|---|---|
| 28 - 38S - 22E | WILDCAT | SAN JUAN | UTAH SM |

| LEASE NAME | WELL NO. | TEST NO. | TESTED INTERVAL | LEASE OWNER/COMPANY NAME |
|---|---|---|---|---|
| CUTHAIR | 128 | 1 | 5936.' - 6008.' | HRUBETZ OIL COMPANY |

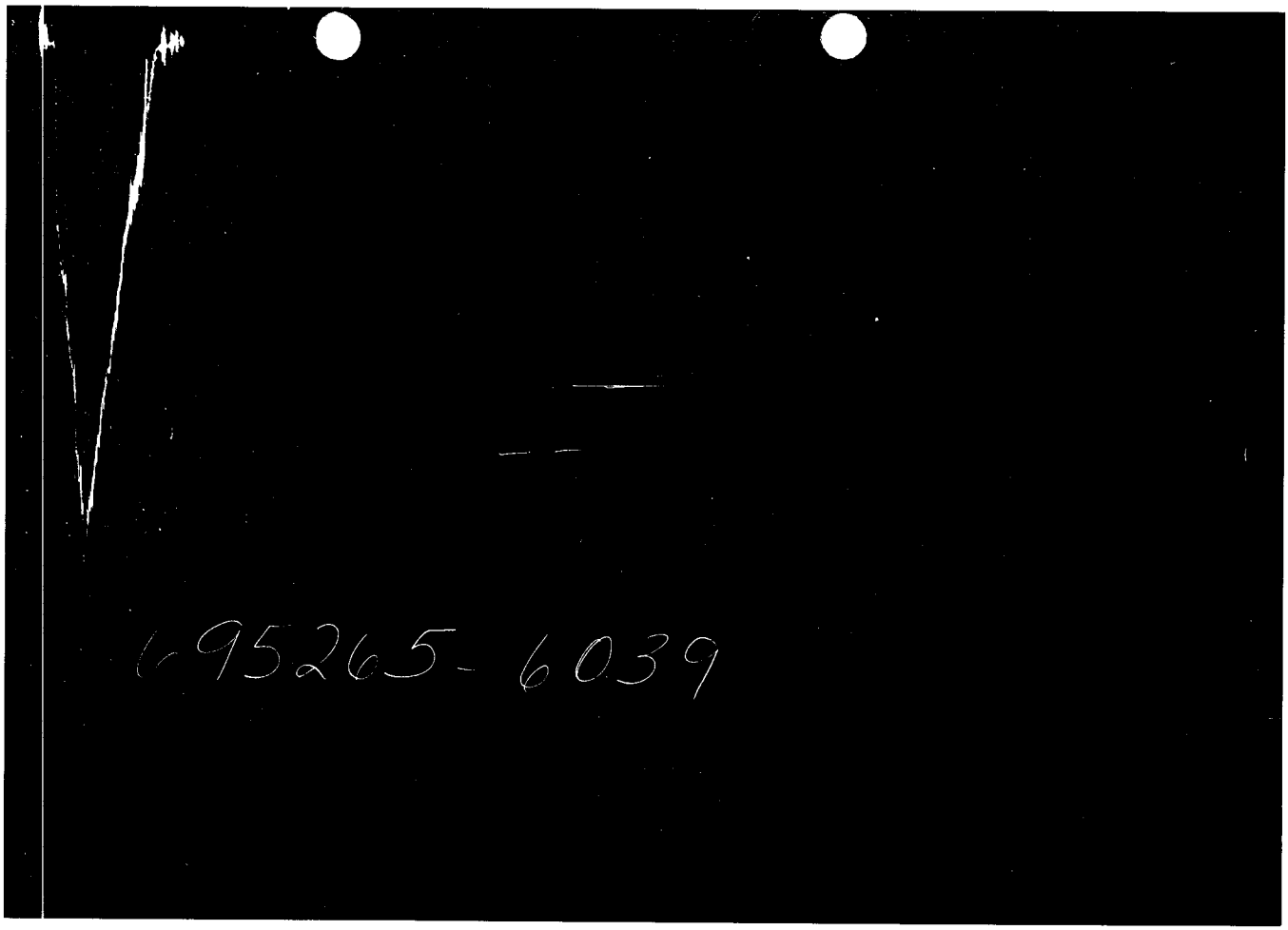

TICKET NO. 69526500
27-DEC-83
FARMINGTON

# FORMATION TESTING SERVICE REPORT




GAUGE NO: 6040 DEPTH: 5918.0 BLANKED OFF: NO HOUR OF CLOCK: 12

| ID | DESCRIPTION | PRESSURE | | TIME | | TYPE |
|---|---|---|---|---|---|---|
| | | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A | INITIAL HYDROSTATIC | 2829 | 2859.9 | | | |
| B | INITIAL FIRST FLOW | 14 | 9.3 | 15.0 | 15.0 | F |
| C | FINAL FIRST FLOW | 14 | 9.3 | | | |
| C | INITIAL FIRST CLOSED-IN | 14 | 9.3 | 30.0 | 30.0 | C |
| D | FINAL FIRST CLOSED-IN | 27 | 32.4 | | | |
| E | INITIAL SECOND FLOW | 14 | 9.4 | 60.0 | 60.0 | F |
| F | FINAL SECOND FLOW | 14 | 9.5 | | | |
| F | INITIAL SECOND CLOSED-IN | 14 | 9.5 | 120.0 | 120.0 | C |
| G | FINAL SECOND CLOSED-IN | 14 | 24.3 | | | |
| H | FINAL HYDROSTATIC | 2829 | 2834.3 | | | |




GAUGE NO: 6039 DEPTH: 6004.0 BLANKED OFF: YES HOUR OF CLOCK: 24

| ID | DESCRIPTION | PRESSURE | | TIME | | TYPE |
|---|---|---|---|---|---|---|
| | | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A | INITIAL HYDROSTATIC | | | | | |
| B | INITIAL FIRST FLOW | | | 15.0 | | F |
| C | FINAL FIRST FLOW | | | | | |
| C | INITIAL FIRST CLOSED-IN | | | 30.0 | | C |
| D | FINAL FIRST CLOSED-IN | | | | | |
| E | INITIAL SECOND FLOW | | | 60.0 | | F |
| F | FINAL SECOND FLOW | | | | | |
| F | INITIAL SECOND CLOSED-IN | | | 120.0 | | C |
| G | FINAL SECOND CLOSED-IN | | | | | |
| H | FINAL HYDROSTATIC | | | | | |

# EQUIPMENT & HOLE DATA

FORMATION TESTED: DESERT CREEK
NET PAY (ft):
GROSS TESTED FOOTAGE: 72.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 4882
TOTAL DEPTH (ft): 6008.0
PACKER DEPTH(S) (ft): 5930, 5936
FINAL SURFACE CHOKE (in):
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.10
MUD VISCOSITY (sec): 40
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 122 @ 6008.0 ft

TICKET NUMBER: 69526500

DATE: 12-18-83 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: FARMINGTON

TESTER: H. BELL

WITNESS: RON COFFEE

DRILLING CONTRACTOR: COLEMAN #2

# FLUID PROPERTIES FOR RECOVERED MUD & WATER

| SOURCE | RESISTIVITY | CHLORIDES |
|---|---|---|
| PIT | 2.180 @ 58 °F | ppm |
| RECOVERY | 0.880 @ 40 °F | ppm |
| | @ °F | ppm |
| | @ °F | ppm |
| | @ °F | ppm |
| | @ °F | ppm |

# SAMPLER DATA

Psig AT SURFACE:
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER:
cc OF MUD:
TOTAL LIQUID cc:

# HYDROCARBON PROPERTIES

OIL GRAVITY (°API): @ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

# CUSHION DATA

| TYPE | AMOUNT | WEIGHT |
|---|---|---|
| | | |
| | | |

# RECOVERED:

5 FEET OF MUD

MEASURED FROM TESTER VALVE

# REMARKS:

CLOCK STOPPED ON GAUGE # 6039

Well Completion Report

HRUBETZ OIL COMPANY
#1-28 Cuthair
SESE Section 28, T38S-R22E
San Juan County, Utah

Report by: M. J. Todd Davis
Consultant
P. O. Box 3022
Casper, Wyoming 82602

Hrubetz Oil Company
#1-28 Cuthair

## WELL HISTORY

| DATE | | | DEPTH | OPERATION |
|---|---|---|---|---|
| December | 1, 1983 | 0600 hrs | 0 | Moving in and rigging up. |
| " | 2, 1983 | 0600 hrs | 0 | Drilling rathole and mousehole. |
| " | 3, 1983 | 0600 hrs | 810 | Drilling 12 1/4" surface hole. Spudded noon, December 2, 1983. |
| " | 4, 1983 | 0600 hrs | 1608 | W.O.C., ran 39 joints, 1595', 8 5/8", 24#, K-55 casing, cemented by Haliburton with good returns. Plug down at 0700 hrs December 4, 1983. Base surface casing 1608 K.B. |
| " | 5, 1983 | 0600 hrs | 1608 | Drilling cement plug. Pressured up B.O.P., 1000#. |
| " | 6, 1983 | 0600 hrs | 2610 | Drilling, 1002 feet in 24 hours. |
| " | 7, 1983 | 0600 hrs | 3310 | Drilling, 700 feet in 24 hours. Trip for bit at 2867. |
| " | 8, 1983 | 0600 hrs | 3965 | Drilling, 655 feet in 24 hours. |
| " | 9, 1983 | 0600 hrs | 4446 | Drilling, 481 feet in 24 hours. Trip for bit at 4072. |
| " | 10, 1983 | 0600 hrs | 4956 | Drilling, 510 feet in 24 hours. Prep to trip for hole in pipe. |
| " | 11, 1983 | 0600 hrs | 5292 | Drilling, 336 feet in 24 hours. |
| " | 12, 1983 | 0600 hrs | 5621 | Drilling, 329 feet in 24 hours. |
| " | 13, 1983 | 0600 hrs | 5740 | Coring, 121 feet in 24 hours. Core time = 25-30 minutes per foot. |
| " | 14, 1983 | 0600 hrs | 5779 | Washing to bottom. Cored 5733-5779, cut 47', recovered 45' Ismay. |
| " | 15, 1983 | 0600 hrs | 5976 | Drilling, 195 feet in 24 hours. Trip for bit at 5966. |
| " | 16, 1983 | 0600 hrs | 6015 | Logging, Log T.D. 6008 (7 feet fill). |
| " | 17, 1983 | 0600 hrs | 6015 | Waiting on Vibrosies trucks for logs. |
| " | 18, 1983 | 0600 hrs | 6015 | Running DST #1, no blow. |

## PLUGGING RECORD

| | | | |
|---|---|---|---|
| Plug #1 | 5913 | 35 sacks | Desert Creek |
| Plug #2 | 4690 | 35 sacks | Hermosa |
| Plug #3 | 3058 | 50 sacks | Cutler |
| Plug #4 | 1926 | 50 Sacks | Chinle |
| Plug #5 | 1608 | 50 Sacks | 1/2 in-out casing |
| Plug #6 | Surface | 50 sacks | With dry hole marker |

Approval from Terry Galloway, U.S.G.S., Durango, Colorado
Phone 303-247-5144 December 16, 1983

Hrubetz Oil Company
#1-28 Cuthair

FORMATION TOPS

| FORMATION | E-LOG | DATUM (K.B.) | SAMPLE |
|---|---|---|---|
| Chinle | 1926 | +2956 | |
| DeChelly | 2934 | +1948 | 2936 |
| Cutler | 3058 | +1824 | 3057 |
| Cutler Evaperites | 3640 | +1242 | 3640 |
| Hermosa | 4690 | + 192 | 4700 |
| Ismay | 5680 | - 798 | 5665 |
| Lower Ismay | 5803 | - 921 | 5773 |
| Gothic | 5882 | -1000 | 5874 |
| Desert Creek | 5913 | -1031 | 5893 |
| Chimney Rock | 6002 | -1120 | 5985 |

Cyberlook presentation by Schlumberger

Hrubetz Oil Company
#1-28 Cuthair

## BIT RECORD

| NO. | MFGR | SIZE | TYPE | DEPTH IN | DEPTH OUT | FOOTAGE | HOURS RUN | WT | RPM |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Smith | 12 1/4 | F3RR | 50 | 1608 | 1558 | 30 3/4 | 40 | 80 |
| 2 | Smith | 7 7/8 | F2RR | 1608 | 2857 | 1249 | 26 3/4 | 35 | 70 |
| 3 | Hughes | 7 7/8 | J33RR | 2857 | 4072 | 1215 | 40 | 35 | 70 |
| 4 | Smith | 7 7/8 | F3 | 4072 | 5732 | 1660 | 91 1/4 | 40 | 65 |
| 5 | Christensen | 7 7/8 | MC201 | 5732 | 5779 | 47 | 22 3/4 | 35 | 55 |
| 6 | Hughes | 7 7/8 | J33RR | 5779 | 5966 | 187 | 15 3/4 | 45 | 55 |
| 7 | Smith | 7 7/8 | F-3RR | 5966 | 6015 | 49 | 4 1/2 | 45 | 55 |

## MUD RECORD

| DATE | TIME | DEPTH | WT | VIS | Pv/Yp | pH | W.L. | CHLORIDES | CUMULATIVE COST |
|---|---|---|---|---|---|---|---|---|---|
| Dec. 7, 1983 | 0957 hrs | 3397 | 8.8 | 27 | | 8.5 | | 1500/20 | |
| " 8, 1983 | 0830 hrs | 4033 | 8.7 | 27 | | 8.0 | | 1500/400 | $ 1,889.00 |
| " 9, 1983 | 0800 hrs | 4492 | 8.7 | 27 | | 8.0 | | 1500/400 | 1,974.00 |
| " 10, 1983 | 0941 hrs | 4970 | 8.4 | 27 | | 8.0 | | 1500/440 | 2,478.00 |
| " 11, 1983 | 1945 hrs | 5503 | 8.9 | 32 | 7/2 | 10.0 | 13.0 | 1500/120 | 3,075.00 |
| " 12, 1983 | 1030 hrs | 5660 | 9.1 | 34 | 9/3 | 11.3 | 11.0 | 1300/80 | 5,291.00 |
| " 13, 1983 | 1015 hrs | 5752 | 9.1 | 35 | 9/3 | 12.0 | 9.6 | 1200/80 | 6,438.00 |
| " 14, 1983 | 1000 hrs | 5824 | 9.1 | 40 | 11/5 | 12.0 | 10.0 | 2400/80 | 7,319.00 |
| " 15, 1983 | 0935 hrs | 6015 | 9.2 | 40 | 12/6 | 12.0 | 9.8 | 2500/240 | 9,416.00 |

## DEVIATIONS

| DEPTH | DEGREE | DEPTH | DEGREE |
|---|---|---|---|
| 150 | 1 | 3691 | 1/2 |
| 571 | 3/4 | 4071 | 1/2 |
| 1036 | 1 | 4467 | 1 |
| 1608 | 1 | 4882 | 1/4 |
| 2017 | 1 | 5435 | 3/4 |
| 2415 | 3/4 | 5703 | 3/4 |
| 2857 | 1/4 | 6015 | 3/4 |
| 3285 | 0 | | |

SAMPLE DESCRIPTION

| | |
|---|---|
| | Samples are lagged. |
| 4500-4680 | SHALE, orange-red, minor SILTSTONE, traces SAND, fine to very fine. |
| 4680-4720 | SHALE, as above, mottled in part, anhydritic. |
| 4720-4740 | SHALE, orange-red, mottled as above with trace LIMESTONE, cream, dense. |
| 4740-4750 | SHALE, as above, trace SAND, pink, fine, friable, slight increase SILTSTONE. |
| 4750-4790 | SHALE, or CLAYSTONE, green-gray, soft, slightly calcareous, trace pink LIMESTONE, mostly SHALE, orange. |
| 4790-4860 | Trace SHALE, gray, some SILTSTONE, orange, occasional calcite. (VERY POOR SAMPLES, SWEEPING HOLE WITH L.C.M.) |
| 4860-4880 | CLAYSTONE, soft, salt and pepper, light gray, with some SAND, fine, rare medium and SHALE, light gray. |
| 4880-4940 | Mostly SHALE, orange, silty and sandy in part, minor light gray SHALE and SILTSTONE, as above, some purple-lavender. |
| 4940-4970 | NO SAMPLES, hole in drill pipe, short trip. |
| 4970-4990 | CLAYSTONE, light gray, salt and pepper; SAND, light gray, fine, some LIME, tan, dense. |
| 4990-5020 | Less gray; mostly orange SHALE, as above, some maroon. |
| 5020-5030 | SHALE, varicolor, limy in part, with SAND, fine, slightly calcareous. |
| 5030-5070 | No samples - nothing coming up. |
| 5070-5120 | SHALE, as above, mostly orange, sandy in part, trace limestone, tan. |
| 5120-5170 | SHALE, orange, mottled in part with green-cream, some maroon. |
| 5170-5210 | SHALE, as above, with trace LIMESTONE, tan, silty; trace sand, fine orange and white. |
| 5210-5260 | SHALE, orange, silty in part, increase SHALE, lavender, with limestone nodules. |
| 5260-5280 | NO SAMPLE (Switching to flowline samples again). |
| 5280-5340 | SHALE, varicolored as above, traces LIMESTONE, tan, silty. |
| 5340-5380 | Increase LIMESTONE, cream-tan, SHALE is more calcareous. |
| 5380-5450 | SHALE, as above, very calcareous;LIMESTONE, gray, very sandy, fine. (Samples extremely fine.) |
| 5450-5480 | SHALE, gray, calcareous in part. Some LIMESTONE, light gray, silty. |
| 5480-5500 | LIMESTONE, gray, dense to trace fossiliferous; SHALE, as above. |
| 5500-5520 | SHALE, medium gray, calcareous; LIMESTONE, gray-tan; trace CHERT, very light gray and tan. |
| 5520-5530 | SHALE, as above, less LIME. |
| 5530-5550 | LIMESTONE, gray, dense and some silty and sandy. |
| 5550-5560 | LIMESTONE, gray dense, fossiliferous, trace crinoid, and SHALE, medium gray and trace SHALE, dark gray, silty, to almost black, slightly calcareous. (Start 5 foot samples.) |
| 5560-5565 | LIMESTONE, brown-gray, fine crystalline; SHALE, gray and medium gray. LIME has dull fluoresence, no cut. |
| 5565-5570 | SHALE, medium-dark gray, fissile, with some LIMESTONE, as above and trace ANHYDRITE, clear. |
| 5570-5575 | LIMESTONE, gray and brown, dense, argillaceous with trace CHERT, brown. |
| 5575-5580 | LIMESTONE, lighter gray with calcite and slight increase CHERT, as above, dull fluoresence, no cut. |
| 5580-5585 | LIMESTONE, as above, no cut. Trace SHALE, dark gray, calcite, probably fossil debris. |
| 5585-5595 | LIMESTONE, very light gray-white, abundant calcite, probably very fossiliferous, no shows. |
| 5595-5605 | SHALE, medium gray, fissile, slightly calcareous, less LIMESTONE. |
| 5605-5615 | LIMESTONE, gray, fossiliferous in part, argillaceous, dense, with minor chert, brown-gray; trace sandy lime. |
| 5615-5625 | SHALE, medium gray, silty and tan-gray LIMESTONE, slightly sandy in part. |

SAMPLE DESCRIPTION (Cont'd)

5625-5635 LIMESTONE, as above. Trace SAND, fine to medium, round, poorly sorted, slightly calcareous, no show; trace pelletoidal LIMESTONE.
5635-5640 Poor sample, abundant cavings, trace dark brown CHERT.
5640-5645 LIMESTONE, light gray, dense, faint fossil outlines(?), silaceous in part to scattered chert fragments.
5645-5660 LIMESTONE, gray-tan to brown, dense, fossiliferous and slightly anhydritic. Trace fusilinid.
5660-5700 Poor samples. Probable mud breakdown from drilling anhydrite.
5700-5720 LIMESTONE, light gray and tan, dense, Dull fluoresence (mineral), some brown LIMESTONE, dense; very minor chert. ISMAY 5665.
5720-5727 SHALE, dark gray and gray-brown to trace black. Some Dolomite, gray, silty, scattered fossil fragments in limestone, gray brown; dull fluoresence.
5727 Circulated: LIMESTONE, as above. Trace black, fissile shale.
5 foot down-hole correction after strap: 5727=5732.

Core #1 5732-5779 Cut 47 feet, recovered 45 feet.

| | |
|---|---|
| 5732-5736 | LIMESTONE, brown, dense, dull fluoresence, no cut. |
| 5736-5738 | LIMESTONE, brown, dense, argillaceous, scattered crinoids. |
| 5738-5741 | LIMESTONE, as above, silaceous. |
| 5741-5745 | LIMESTONE, brown, silaceous. |
| 5745-5746 | LIMESTONE, dark brown, dense, crinoidal, fluoresence. |
| 5746-5751 | LIMESTONE, very dark brown, dense, chert nodules with odor on fresh break. (Gas kick from 5749: 448 units.) |
| 5751-5753 | LIMESTONE, dark brown, dense, odor on fresh break, scattered fluoresence on break faces, no porosity. |
| 5753-5759.5 | LIMESTONE, brown, fossiliferous, (coral and fusilinids) argillaceous faint odor on fresh break, no porosity. |
| 5759.5-5763.5 | LIMESTONE, as above, decreasing fossils. |
| 5763.5-5767 | LIMESTONE, dark brown to almost black, silaceous, fossiliferous with concoidal fracture, scattered fluoresence and some DEAD OIL along fine laminations. |
| 5767-5770 | LIMESTONE, very dark brown, scattered fossils (fusilinid, crinoid) very argillaceous, no fluoresence. |
| 5770-5773 | LIMESTONE, as above, odor on fresh break. |
| 5773-5774 | SHALE, black, very calcareous, less fossils. |
| 5775-5777 | LIMESTONE, brown, dense, argillaceous, stylolitic in part, no fluoresence. |
| 5777-5779 | Missing. |

5779-5810 LIMESTONE, brown, dense, argillaceous, trace dolomite, dark gray-black.
5810-5815 LIMESTONE, light gray-white, medium-coarse, crystalline calcite, various fossil shadows, no shows. Fair porosity.
5815-5830 LIMESTONE, buff to light gray, pseudo-fossiliferous, as above, no shows, scattered mineral fluoresence only, fair porosity.
5830-5840 LIMESTONE, as above, dolomitic, scattered fair porosity, no shows.
5840-5865 LIMESTONE, buff to light gray-white, fossils as above, no identifiable algal material, but abundant calcite, mineral fluoresence, no cut.
5865-5880 LIMESTONE, as above, decreasing buff and white with calcite replaced fossil debris, more tan and light gray; ?trace increase gray SHALE, 5875-5880?
5880-5895 SHALE, black, silty, calcareous and/or dolomitic; shale, gray and LIMESTONE, gray-brown, as above. GOTHIC 5874.
5895-5900 SHALE, as above and LIMESTONE, buff gray, tight, no porosity, no cut.

SAMPLE DESCRIPTION (Cont'd)

| | |
|---|---|
| 5900-5915 | SHALE, as above, and some LIMESTONE, as above, with DOLOMITE, gray, silty to fine sandy, no show. DESERT CREEK 5893 (-1011). |
| 50;5-5930 | LIMESTONE, cream-white, chalky; ANHYDRITE, light gray to translucent; SHALE, as above. |
| 5930-5950 | LIMESTONE, cream-white, soft, chalky with ANHYDRITE with DOLOMITE, gray, silty or very fine sandy, no shows. |
| 5950-5970 | NO SAMPLES, by passing shaker because mud fluffed because of anhydrite. |
| 5970-5980 | LIMESTONE, DOLOMITE and ANHYDRITE, as above with SHALE, gray to medium-light gray. |
| 5980-5990 | SHALE, black, silty and dolomitic. CHIMNEY ROCK 5985. |
| 5990-6005 | LIMESTONE, dense, gray and brown, argillaceous to very argillaceous in part and some DOLOMITE, gray, dirty, minor SHALE, as above. |
| 6005-6015 | LIMESTONE, as above, and ANHYDRITE, gray, dense. |

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 4, 1984

Hrubetz Oil Company
c/o Steedley & Associates
P O Box 885
Worland, WY 82601

Gentlemen:

Thank you for the Well Completion Report filed with this office by M. J. Todd Davis on December 28, 1983. There are, however, some problems regarding proper procedures on this well.

Enclosed is a copy of the original letter of approval for this well. You will note that it requires a copy of the Utah Division of Water Rights approval for use or purchase of drilling water be submitted to this office prior to spudding. The required documents were not received by this office. Since you have plugged and abandoned this well failure to document water rights for drilling this well will not be pursued at this time, however, complience with requirements of this agency must occur if you intend to continue doing business in the State of Utah.

You will also note that you were requested to immediately notify Ronald J. Firth if you determined it necessary to plug and abandon this well. You did not follow this procedure. It is imperative that you immediately submit a subsequent report of abandonment on the enclosed form. In the future the correct procedure is to notify Mr. Firth and verify your plugging procedure prior to actually plugging a well.

Enclosed for your convenience.are the forms that should have been submitted for this well. Please complete them as soon as possible and return them to this office to my attention.

Respectfully,

Claudia Jones

Claudia Jones
Well Records Specialist

CLJ/cj
Enclosure

## WELL DATA

| | |
|---|---|
| OPERATOR: | HRUBETZ OIL COMPANY, Denver, Colorado |
| WELL NAME: | #1-28 Cuthair |
| LOCATION: | SESE Section 28, T38S,R22E |
| COUNTY & STATE: | San Juan County, Utah |
| ELEVATION: | 4882 K.B. 4869 Ground |
| CONTRACTOR: | Coleman Drilling Co., Rig #2, Farmington, New Mexico<br>Draw Works: IDECO H-40-D<br>Power: Two Detroit Diesel V-871-Turbo<br>Pumps: #1 O.P.I. 700 8" stroke, Cat 379<br>#2 IDECO 600 16" stroke, Cat 379<br>Tool Pusher: John Richardson, Grand Junction, Colorado<br>Drillers: K. Keenom, R. Haycock, G. Forsythe, J. Corbly |
| SURFACE PIPE: | 1595', 8 5/8", K-55, 24#, 39 joints at 1608' K.B. |
| COMMENCED DRILLING: | Noon, December 2, 1983 ✓ |
| CEASED DRILLING: | 0935 hours, December 15, 1983 ✓ |
| DRILLING FLUID: | Dispersed Chem-Gel, Milchem, Inc., Dan Reid, Engineer |
| MUD LOGGING: | Terra Services, Denver, Colorado, John Pudliner and Craig Cuotlee |
| ELECTRIC LOGGING: | Schlumberger, Inc., Farmington, New Mexico, Tom Link, Engineer |
| CORES: | Christensen Diamond Products, Farmington, New Mexico.<br>5732-5779 |
| TESTS: | DST #1 5936-6008 Misrun by Haliburton |
| ENGINEER: | Ron Coffey, Consultant, Farmington, New Mexico |
| GEOLOGIST: | M. J. Todd Davis, Consultant, Casper, Wyoming |
| TOTAL DEPTH: | 6015 Driller, 6008 Schlumberger |
| STATUS: | Plugged and abandoned |

1-11-84

Claudia,

we are trying to get the water right permit and as soon as I receive it, I will forward it to you.

Dick

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Hrubetz Oil Company

3. ADDRESS OF OPERATOR: c/o Steedley & Associates, Box 971, Basin, WY 82410

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660' FEL 660' FSL

5. LEASE DESIGNATION AND SERIAL NO.: MOO-C-1420-3637 ✓

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

9. WELL NO.: 1-28 Cuthair

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 28, T38S, R22E

14. PERMIT NO.: 43-037-30938

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4869' GR

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| TEST WATER SHUT-OFF | [ ] | PULL OR ALTER CASING | [ ] | WATER SHUT-OFF | [ ] | REPAIRING WELL | [ ] |
| FRACTURE TREAT | [ ] | MULTIPLE COMPLETE | [ ] | FRACTURE TREATMENT | [ ] | ALTERING CASING | [ ] |
| SHOOT OR ACIDIZE | [ ] | ABANDON* | [ ] | SHOOTING OR ACIDIZING | [ ] | ABANDONMENT* | [X] ✓ |
| REPAIR WELL | [ ] | CHANGE PLANS | [ ] | (Other) | | | [ ] |
| (Other) | | | [ ] | | | | |

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Well was plugged as follows: 51 sacks from 6015' to 5750'
43 sacks from 4740' to 4640'
40 sacks from 3100' to 3000'
45 sacks from 1976' to 1876'
35 sacks from 1658' to 1558'-Base of 8 5/8" surface casing shoe
20 sacks to surface

Cut off casing at ground level and welded dry hole marker on 12-19-83.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 1/18/84
BY:

Verbal approval 12/14/83, to Mr Todd Davis.

18. I hereby certify that the foregoing is true and correct

SIGNED Dick Steedley (MP) TITLE Agent DATE 1-11-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

CORE ANALYSIS RESULTS FOR

HRUBETZ OIL COMPANY

NO. 1-28 CUTHAIR

WILDCAT

SAN JUAN COUNTY, UTAH

# CORE LABORATORIES, INC.

*Petroleum Reservoir Engineering*

DALLAS, TEXAS

HRUBETZ OIL COMPANY
NO. 1-28 CUTHAIR
WILDCAT
SAN JUAN COUNTY, UTAH

DATE : 12-15-83
FORMATION : PARADOX
DRLG. FLUID: WBM
LOCATION : SE SE SEC. 28 T38S R22E

FILE NO : 3807-0072
ANALYSTS : R. MOHL
ELEVATION: 4869 GR

## CONVENTIONAL ANALYSIS--SUMMATION OF FLUIDS

| SAMPLE NUMBER | DEPTH | PERM Ka MAXIMUM | POR. FLD | FLUID SATS. OIL | WTR | DESCRIPTION |
|---|---|---|---|---|---|---|
| 1 | 5732.0-33.0 | 0.01 | 1.1 | 0.0 | 81.1 | CVF LM VF/XLN FOSS |
| 2 | 5733.0-34.0 | <0.01 | 0.3 | 0.0 | 73.7 | CVF LM VF/XLN FOSS |
| 3 | 5734.0-35.0 | 0.04 | 0.5 | 0.0 | 83.1 | CVF LM VF/XLN FOSS PYR |
| 4 | 5735.0-36.0 | 1.24 | 0.4 | 0.0 | 55.5 | CVF LM VF/XLN STYO |
| 5 | 5736.0-37.0 | <0.01 | 0.3 | 0.0 | 69.0 | CVF LM VF/XLN FOSS PYR |
| 6 | 5737.0-38.0 | <0.01 | 0.3 | 0.0 | 65.9 | CVF LM VF/XLN PYR CALC INF |
| 7 | 5738.0-39.0 | <0.01 | 0.3 | 0.0 | 63.5 | CVF LM VF/XLN |
| 8 | 5739.0-40.0 | 0.02 | 0.3 | 0.0 | 70.7 | CVF LM VF/XLN FOSS |
| 9 | 5740.0-41.0 | 0.01 | 0.4 | 0.0 | 60.5 | CVF LM VF/XLN |
| 10 | 5741.0-42.0 | <0.01 | 0.3 | 0.0 | 71.1 | CVF LM VF/XLN FOSS |
| 11 | 5742.0-43.0 | <0.01 | 0.6 | 0.0 | 74.6 | LM VF/XLN FOSS PYR |
| 12 | 5743.0-44.0 | <0.01 | 0.4 | 0.0 | 60.5 | CVF LM VF/XLN STYO |
| 13 | 5744.0-45.0 | <0.01 | 1.2 | 43.4 | 34.7 | LM VF-FN/XLN FOSS |
| 14 | 5745.0-46.0 | 0.06 | 0.9 | 11.8 | 23.5 | CVF LM VF/XLN FOSS CALC INF |
| 15 | 5746.0-47.0 | 0.18 | 0.6 | 0.0 | 37.6 | OVF LM VF-FN/XLN STYO FOSS CALC XTLS |
| 16 | 5747.0-48.0 | 64. | 0.8 | 0.0 | 26.8 | OVF LM VF/XLN CALC INF |
| 17 | 5748.0-49.0 | <0.01 | 0.7 | 29.1 | 29.1 | CVF LM VF-FN/XLN FOSS CALC XTLS |
| 18 | 5749.0-50.0 | <0.01 | 0.7 | 0.0 | 32.8 | CVF LM VF/XLN |
| 19 | 5750.0-51.0 | 0.35 | 1.6 | 47.5 | 27.1 | LM FN/XLN FOSS CARB |
| 20 | 5751.0-52.0 | <0.01 | 1.3 | 40.0 | 32.0 | CVF LM FN-MED/XLN FOSS |
| 21 | 5752.0-53.0 | <0.01 | 1.0 | 51.3 | 20.6 | LM FN-MED/XLN FOSS |
| 22 | 5753.0-54.0 | 0.01 | 0.7 | 29.9 | 29.9 | LM FN-MED/XLN FOSS |
| 23 | 5754.0-55.0 | <0.01 | 1.6 | 47.3 | 27.1 | LM FN-MED/XLN FOSS CARB |
| 24 | 5755.0-56.0 | <0.01 | 1.5 | 36.2 | 28.9 | LM FN-MED/XLN FOSS CARB |
| 25 | 5756.0-57.0 | <0.01 | 1.1 | 20.0 | 40.0 | LM FN-MED/XLN FOSS CARB |
| 26 | 5757.0-58.0 | <0.01 | 1.0 | 54.4 | 21.7 | LM FN-MED/XLN FOSS CARB |
| 27 | 5758.0-59.0 | <0.01 | 0.6 | 19.2 | 38.4 | LM FN-MED/XLN FOSS CARB |
| 28 | 5759.0-60.0 | <0.01 | 1.0 | 51.9 | 20.8 | LM FN-MED/XLN FOSS CARB |

# CORE LABORATORIES, INC.

*Petroleum Reservoir Engineering*

DALLAS, TEXAS

HRUBETZ OIL COMPANY
NO. 1-28 CUTHAIR

DATE : 12-13-83
FORMATION : PARADOX

FILE NO : 3807-0072
ANALYSTS : R. MOHL

## CONVENTIONAL ANALYSIS--SUMMATION OF FLUIDS

| SAMPLE NUMBER | DEPTH | PERM Ka MAXIMUM | POR. FLD | FLUID SATS. OIL | WTR | | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 29 | 5760.0-61.0 | <0.01 | 1.4 | 38.9 | 31.2 | | LM FN-MED/XLN FOSS CARB |
| 30 | 5761.0-62.0 | 0.01 | 1.3 | 41.5 | 33.2 | | LM FN-MED/XLN FOSS CARB |
| 31 | 5762.0-63.0 | <0.01 | 0.7 | 31.7 | 31.7 | | LM FN-MED/XLN FOSS CARB |
| 32 | 5763.0-64.0 | <0.01 | 0.7 | 28.7 | 28.7 | | LM FN/XLN FOSS |
| 33 | 5764.0-65.0 | <0.01 | 1.0 | 54.1 | 21.6 | | LM VF-FN/XLN FOSS CARB |
| 34 | 5765.0-66.0 | <0.01 | 1.0 | 54.3 | 21.7 | | LM VF-FN/XLN FOSS CARB |
| 35 | 5766.0-67.0 | <0.01 | 1.7 | 31.6 | 50.5 | | LM VF-FN/XLN FOSS |
| 36 | 5767.0-68.0 | <0.01 | 2.1 | 35.8 | 51.1 | | LM FN-MED/XLN FOSS CARB |
| 37 | 5768.0-69.0 | <0.01 | 1.8 | 40.6 | 46.4 | | LM FN-MED/XLN FOSS CARB |
| 38 | 5769.0-70.0 | <0.01 | 2.1 | 35.1 | 50.1 | | LM FN-MED/XLN FOSS CARB |
| 39 | 5770.0-71.0 | <0.01 | 1.0 | 10.4 | 62.4 | | LM FN-MED/XLN FOSS CARB |
| 40 | 5771.0-72.0 | <0.01 | 1.4 | 37.6 | 45.1 | CVF | LM FN-MED/XLN FOSS |
| 41 | 5772.0-73.0 | <0.01 | 1.0 | 50.3 | 40.4 | CVF | LM VF/XLN CARB CALC INF |
| 42 | 5773.0-74.0 | <0.01 | 0.6 | 38.8 | 38.8 | CVF | LM VF/XLN CARB CALC INF |
| 43 | 5774.0-75.0 | 0.09 | 0.3 | 0.0 | 70.9 | CVF | LM VF/XLN |
| 44 | 5775.0-76.0 | <0.01 | 0.5 | 0.0 | 81.2 | CVF | LM VF/XLN FOSS |
| 45 | 5776.0-77.0 | <0.01 | 0.5 | 0.0 | 80.9 | CVF | LM VF/XLN FOSS |
| | 5777.0-79.0 | | | | | | LOST CORE |

CVF=CLOSED VERTICAL FRACTURE  OVF=OPEN VERTICAL FRACTURE

# CORE LABORATORIES, INC.

*Petroleum Reservoir Engineering*

DALLAS, TEXAS

HRUBETZ OIL COMPANY
NO. 1-28 CUTHAIR

DATE : 12-15-83
FORMATION : PARADOX

FILE NO. : 3807-0072
ANALYSTS : R. MOHL

*** CORE SUMMARY AVERAGES FOR 1 ZONE ***

DEPTH INTERVAL: 5732.0 TO 5777.0

FEET OF CORE ANALYZED : 45.0 FEET OF CORE INCLUDED IN AVERAGES: 45.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

| | | | | |
|---|---|---|---|---|
| PERMEABILITY HORZONTAL RANGE (MD.) | : | 0.00 TO | 65. | (UNCORRECTED FOR SLIPPAGE) |
| FLUID POROSITY RANGE (%) | : | 0.0 TO | 100.0 | |
| OIL SATURATION RANGE (%) | : | 0.0 TO | 100.0 | |
| WATER SATURATION RANGE (%) | : | 0.0 TO | 100.0 | |

SHALE SAMPLES EXCLUDED FROM AVERAGES,

AVERAGES FOR DEPTH INTERVAL: 5732.0 TO 5777.0

| | | | | |
|---|---|---|---|---|
| AVERAGE PERMEABILITY (MILLIDARCIES) | | | PRODUCTIVE CAPACITY (MILLIDARCY-FEET) | |
| ARITHMETIC PERMEABILITY | : 1.5 | | ARITHMETIC CAPACITY | : 66. |
| GEOMETRIC PERMEABILITY | : 0.01 | | GEOMETRIC CAPACITY | : 0.34 |
| HARMONIC PERMEABILITY | : 0.00 | | HARMONIC CAPACITY | : 0.18 |
| AVERAGE POROSITY (PERCENT) | : 0.9 | | AVERAGE TOTAL WATER SATURATION (PERCENT OF PORE SPACE) | : 41.6 |
| AVERAGE RESIDUAL OIL SATURATION (PERCENT OF PORE SPACE) | : 30.2 | | AVERAGE CONNATE WATER SATURATION ** (PERCENT OF PORE SPACE) | : |

** ESTIMATED FROM TOTAL WATER SAUTRATION.

CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

# STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: HRUBETZ OIL COMPANY
FIELD : WILDCAT
WELL : NO. 1-28 CUTHAIR
COUNTY, STATE: SAN JUAN COUNTY, UTAH

AIR PERMEABILITY : MD. ( HORIZONTAL ) RANGE USED 0.001 TO 65.
POROSITY : PERCENT (FLUID SUMMATION) RANGE USED 0.0 TO 46.0

(PERMEABILITY UNCORRECTED FOR SLIPPAGE)

DEPTH LIMITS : 5732.0 - 5777.0 INTERVAL LENGTH : 45.0
FEET ANALYZED IN ZONE : 45.0 LITHOLOGY EXCLUDED : NONE

## DATA SUMMARY

| POROSITY | PERMEABILITY AVERAGES | | |
|---|---|---|---|
| AVERAGE | ARITHMETIC | HARMONIC | GEOMETRIC |
| 0.9 | 1.5 | 0.00 | 0.01 |

CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

## STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: HRUBETZ OIL COMPANY
FIELD : WILDCAT
WELL : NO. 1-28 CUTHAIR
COUNTY, STATE: SAN JUAN COUNTY, UTAH

### GROUPING BY POROSITY RANGES

| POROSITY RANGE | FEET IN RANGE | AVERAGE POROSITY | AVERAGE PERM. (GEOM.) | AVERAGE PERM. (ARITH) | FREQUENCY (PERCENT) | CUMULATIVE FREQUENCY (%) |
|---|---|---|---|---|---|---|
| 0.0 - 2.0 | 43.0 | 0.8 | 0.011 | 1.5 | 95.6 | 95.6 |
| 2.0 - 4.0 | 2.0 | 2.1 | 0.005 | 0.005 | 4.4 | 100.0 |

TOTAL NUMBER OF FEET = 45.0

CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

## STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: HRUBETZ OIL COMPANY
FIELD : WILDCAT
WELL : NO. 1-28 CUTHAIR
COUNTY, STATE: SAN JUAN COUNTY, UTAH

### GROUPING BY PERMEABILITY RANGES

| PERMEABILITY RANGE | FEET IN RANGE | AVERAGE PERM. (GEOM.) | AVERAGE PERM. (ARITH) | AVERAGE POROSITY | FREQUENCY (PERCENT) | CUMULATIVE FREQUENCY (%) |
|---|---|---|---|---|---|---|
| 0.005 - 0.010 | 33.0 | 0.005 | 0.005 | 1.0 | 73.3 | 73.3 |
| 0.010 - 0.020 | 4.0 | 0.010 | 0.010 | 0.9 | 8.9 | 82.2 |
| 0.020 - 0.039 | 1.0 | 0.020 | 0.020 | 0.3 | 2.2 | 84.4 |
| 0.039 - 0.078 | 2.0 | 0.049 | 0.050 | 0.7 | 4.4 | 88.9 |
| 0.078 - 0.156 | 1.0 | 0.090 | 0.090 | 0.3 | 2.2 | 91.1 |
| 0.156 - 0.312 | 1.0 | 0.180 | 0.180 | 0.6 | 2.2 | 93.3 |
| 0.312 - 0.625 | 1.0 | 0.350 | 0.350 | 1.6 | 2.2 | 95.6 |
| 0.625 - 1.250 | 1.0 | 1.2 | 1.2 | 0.4 | 2.2 | 97.8 |
| 40.- 80. | 1.0 | 64. | 64. | 0.8 | 2.2 | 100.0 |

TOTAL NUMBER OF FEET = 45.0

## STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: HRUBETZ OIL COMPANY — WELL : NO. 1-28 CUTHAIR
FIELD : WILDCAT — COUNTY, STATE: SAN JUAN COUNTY, UTAH

### POROSITY-FEET OF STORAGE CAPACITY LOST FOR SELECTED POROSITY CUT OFF

| POROSITY CUT OFF | FEET LOST | CAPACITY LOST (%) | FEET REMAINING | CAPACITY REMAINING (%) | ARITH MEAN | MEDIAN |
|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 45.0 | 100.0 | 0.9 | |
| 2.0 | 43.0 | 89.7 | 2.0 | 10.3 | 2.1 | |
| 4.0 | 45.0 | 100.0 | 0.0 | 0.0 | | |

TOTAL STORAGE CAPACITY IN POROSITY-FEET = 40.6

CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

## STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: HRUBETZ OIL COMPANY
FIELD : WILDCAT
WELL : NO. 1-28 CUTHAIR
COUNTY, STATE: SAN JUAN COUNTY, UTAH

### MILLIDARCY-FEET OF FLOW CAPACITY LOST FOR SELECTED PERMEABILITY CUT OFF

| PERMEABILITY CUT OFF | FEET LOST | CAPACITY LOST (%) | FEET REMAINING | CAPACITY REMAINING (%) | GEOM MEAN | MEDIAN |
|---|---|---|---|---|---|---|
| 0.005 | 0.0 | 0.0 | 45.0 | 100.0 | 0.01 | |
| 0.010 | 33.0 | 0.2 | 12.0 | 99.8 | 0.09 | 0.06 |
| 0.020 | 37.0 | 0.3 | 8.0 | 99.7 | 0.26 | 0.16 |
| 0.039 | 38.0 | 0.3 | 7.0 | 99.7 | 0.38 | 0.22 |
| 0.078 | 40.0 | 0.5 | 5.0 | 99.5 | 0.85 | 0.44 |
| 0.156 | 41.0 | 0.6 | 4.0 | 99.4 | 1.50 | 0.62 |
| 0.312 | 42.0 | 0.9 | 3.0 | 99.1 | 3.03 | 0.88 |
| 0.625 | 43.0 | 1.4 | 2.0 | 98.6 | 8.91 | 1.25 |
| 1.250 | 44.0 | 3.3 | 1.0 | 96.7 | 64.00 | 56.57 |
| 2.500 | 44.0 | 3.3 | 1.0 | 96.7 | 64.00 | 56.57 |
| 5. | 44.0 | 3.3 | 1.0 | 96.7 | 64.00 | 56.57 |
| 10. | 44.0 | 3.3 | 1.0 | 96.7 | 64.00 | 56.57 |
| 20. | 44.0 | 3.3 | 1.0 | 96.7 | 64.00 | |
| 40. | 44.0 | 3.3 | 1.0 | 96.7 | 64.00 | |
| 80. | 45.0 | 100.0 | 0.0 | 0.0 | | |

TOTAL FLOW CAPACITY IN MILLIDARCY-FEET(ARITHMETIC) = 66.12

CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

# PERMEABILITY VS POROSITY

COMPANY: HRUBETZ OIL COMPANY
FIELD : WILDCAT
WELL : NO. 1-28 CUTHAIR
COUNTY, STATE: SAN JUAN COUNTY, UTAH

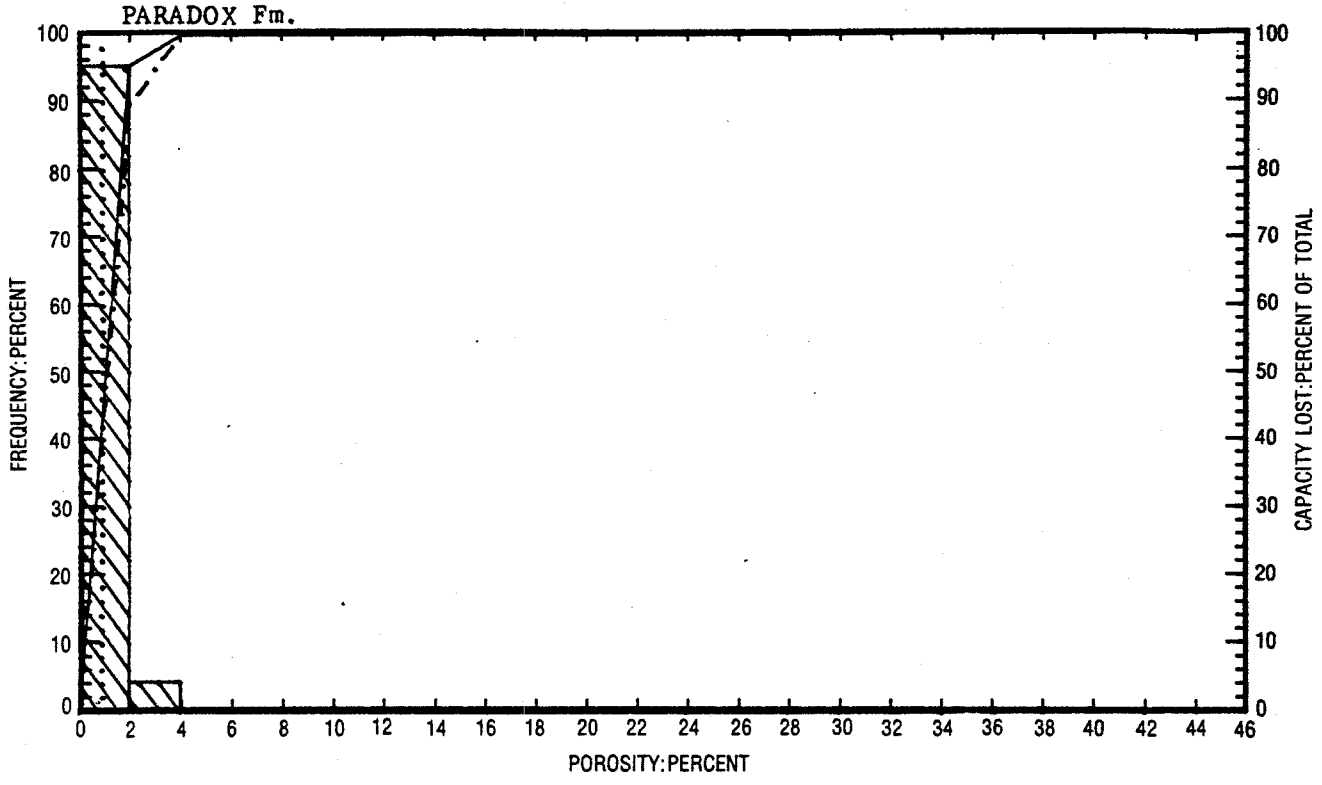
AIR PERMEABILITY : MD - HORIZONTAL ( UNCORRECTED FOR SLIPPAGE )
POROSITY : PERCENT ( FLUID SUMMATION )

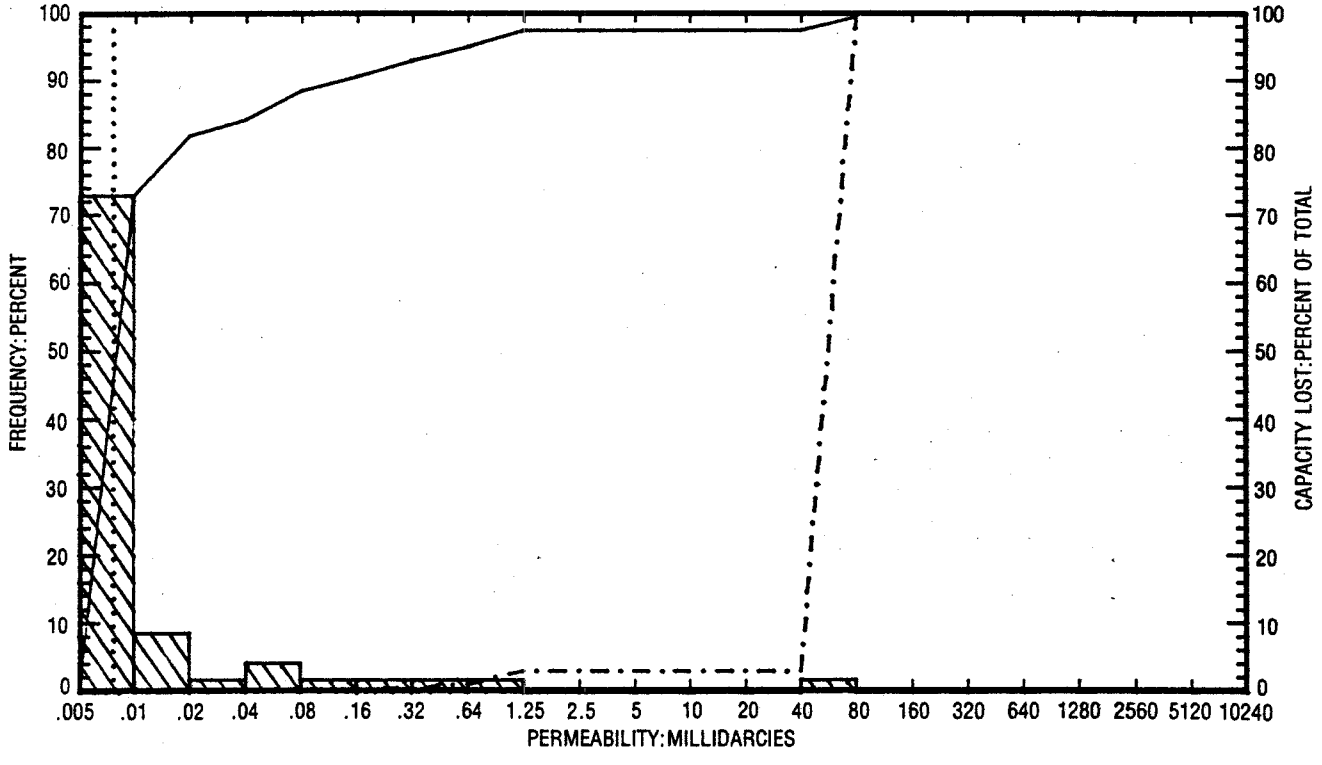
| DEPTH INTERVAL | RANGE & SYMBOL | PERMEABILITY MINIMUM | PERMEABILITY MAXIMUM | POROSITY MIN. | POROSITY MAX. | POROSITY AVERAGE | PERMEABILITY AVERAGES ARITHMETIC | HARMONIC | GEOMETRIC |
|---|---|---|---|---|---|---|---|---|---|
| 5732.0 - 5777.0 | 1 (+) | 0.001 | 65.0 | 0.0 | 2.5 | 0.9 | 1.5 | 0.00 | 0.01 |

EQUATION OF REDUCED LINE RELATING PERMEABILITY(K) TO POROSITY :
LOG(K) = (SLOPE)(POROSITY) + LOG OF INTERCEPT
K = ANTILOG((SLOPE)(POROSITY) + LOG OF INTERCEPT)

| RANGE | EQUATION OF THE LINE |
|---|---|
| 1 | PERM = ANTILOG(( 1.7294)(POROSITY) + -3.6870) |

PARADOX Fm.




## PERMEABILITY AND POROSITY HISTOGRAMS

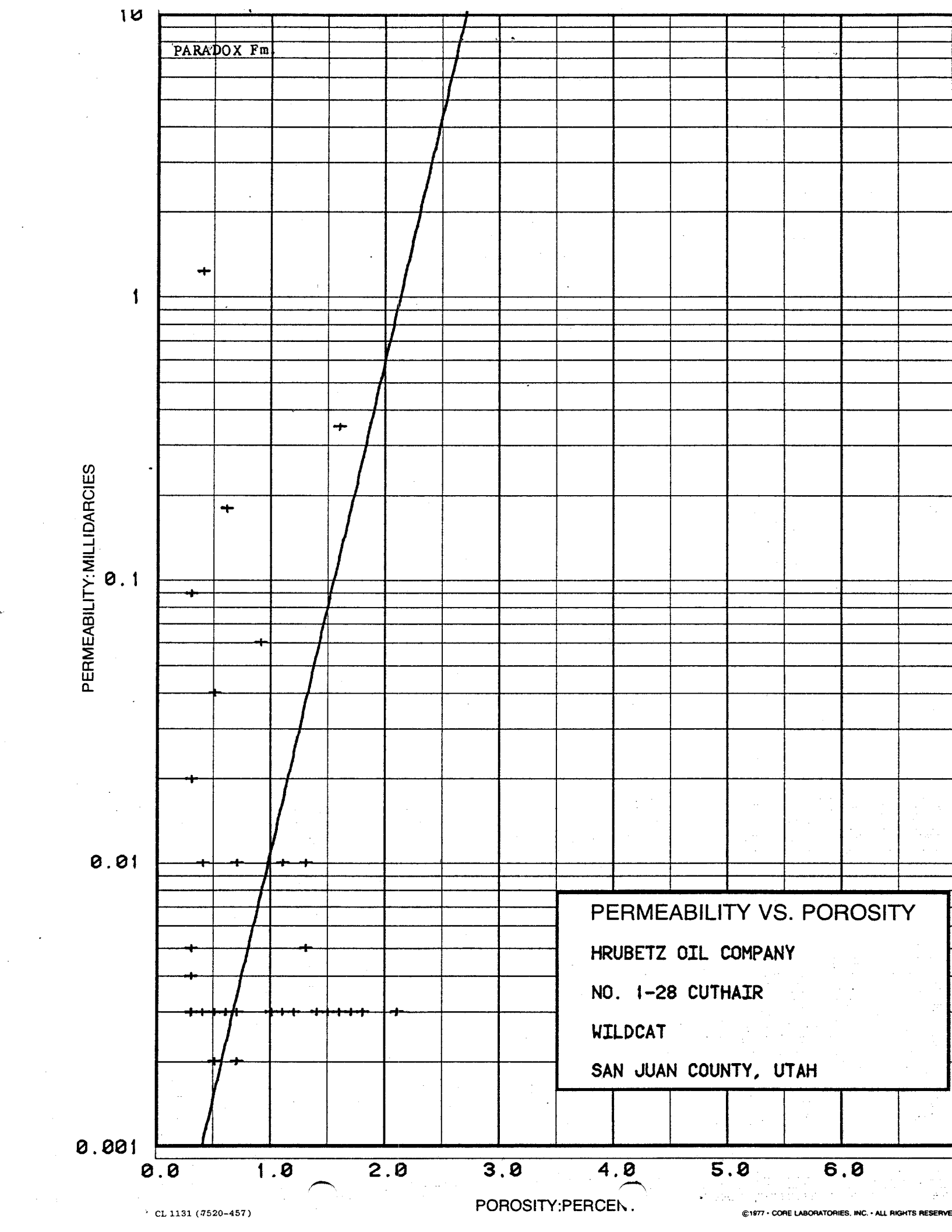
HRUBETZ OIL COMPANY
NO. 1-28 CUTHAIR
WILDCAT
SAN JUAN COUNTY, UTAH

**LEGEND**

ARITHMETIC MEAN POROSITY
GEOMETRIC MEAN PERMEABILITY
MEDIAN VALUE
CUMULATIVE FREQUENCY
CUMULATIVE CAPACITY LOST



CL-1093 (7520-443)




CL 1131 (7520-457)

MATERIALS CODE NO. 7520-535



**CORE LABORATORIES, INC.** *Petroleum Reservoir Engineering*

COMPANY HRUBETZ OIL COMPANY — FILE NO. 3807-0072

WELL NO. 1-28 CUTHAIR — DATE 12-15-83 — ENGRS. R. MOHL

FIELD WILDCAT — FORMATION PARADOX — ELEV. 4869 GR

COUNTY SAN JUAN — STATE UTAH — DRLG. FLD. WBM — CORES

# CoRes Log

## CORE and RESISTIVITY EVALUATION

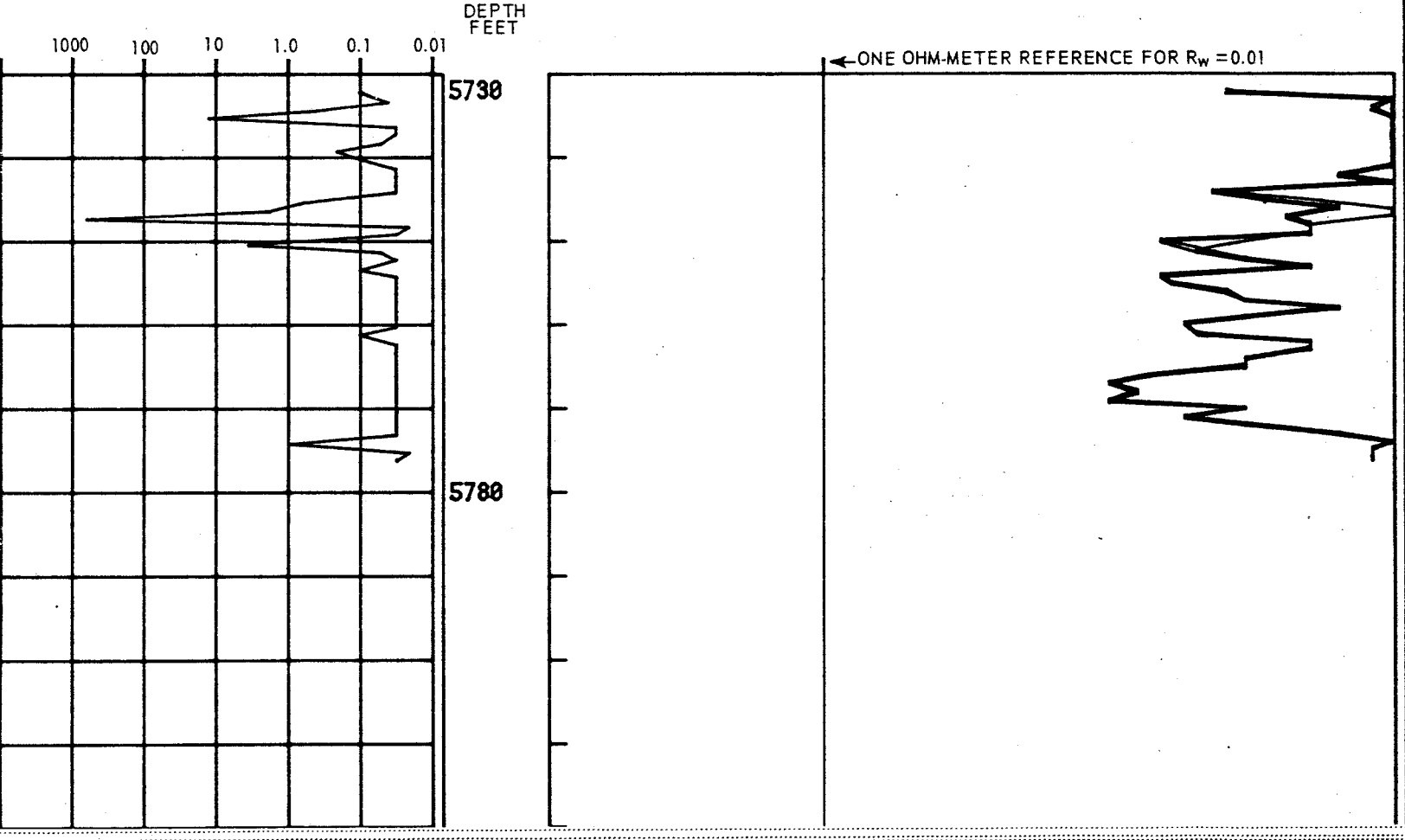


**RESISTIVITY PARAMETERS:** a = 1.00 m = 2.00 n = 2.00 . Depths 5732 to 5777.

a = _____ m = _____ n = _____ . Depths _____ to _____.

**PERMEABILITY**
MILLIDARCIES

**CORE ANALYSIS CALCULATED RESISTIVITY**
$R_o$ = OHM-METERS AT 100% $S_w$
$R_{mp}$ = OHM-METERS AT CRITICAL $S_w$



**CORE LABORATORIES, INC.** *Petroleum Reservoir Engineering*

COMPANY HRUBETZ OIL COMPANY — FILE NO. 3807-0072

WELL NO. 1-28 CUTHAIR — DATE 12-15-83

FIELD WILDCAT — FORMATION PARADOX — ELEV. 4869 GR

COUNTY SAN JUAN — STATE UTAH — DRLG. FLD. WBM — CORES

LOCATION SE SE SEC. 28 T38S R22E

# CORRELATION COREGRAPH



*VERTICAL SCALE: 5" = 100'*

**Gamma Ray**
RADIATION INCREASE →

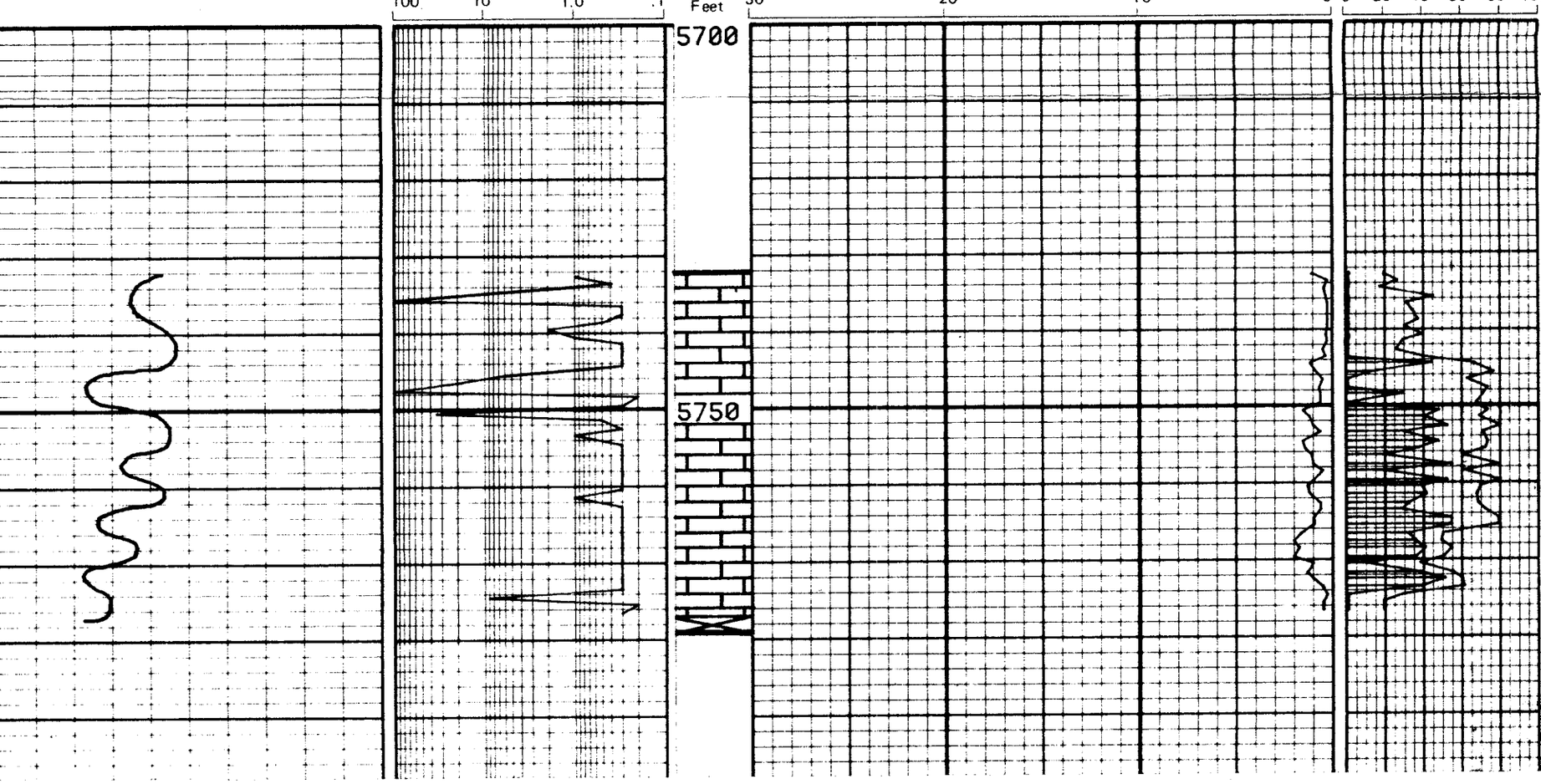
**Permeability** x .01
MILLIDARCIES
100 10 1.0 .1

Depth Feet
5700
5750

**Porosity** ____
PERCENT
30 20 10 0

**Total Water** ____
PERCENT PORE SPACE
100 80 60 40 20 0

**Oil Saturation**
PERCENT PORE SPACE
0 20 40 60 80 100



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

August 1, 1984

Hrubetz Oil Company
c/o Steedley & Associates
P.O. Box 971
Basin, Wyoming 82410

Gentlemen:

SUBJECT: Well No. Cuthair #1-28, Sec. 28, T. 38S., R. 22E., San Juan County, Utah; API #43-037-30938

Thank you for your submittal of the subsequent plugging and abandonment report, core analysis and electric logs on the subject well, however, this division has not received a "Well Completion Report and Log", Form OGC-3, on this location.

Rule C-5 states that within ninety (90) days after the suspension of operations on, abandonment of, or the completion of any well drilled for the production of oil and/or gas, and within ninety (90) days after the completion of any further operations on the well, if such operations involved drilling deeper or drilling or redrilling any formation, a well log shall be filed with the Commission on a form prescribed by the Commission. (Form OGC-3)

Enclosed are the necessary forms for your convenience in bringing this well into compliance with the aforementioned.

Your prompt attention to this matter will be greatly appreciated.

Sincerely,

Claudia L. Jones

Claudia L. Jones
Well Records Specialist

clj

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

Form OGCC-3

16

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION 6

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Plugged & Abandoned

2. NAME OF OPERATOR: Hrubetz Oil Company

3. ADDRESS OF OPERATOR: %Steedley & Associates, P.O. Box 971, Basin, WY 82410

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 660' FSL 666' FEL (SE¼SE¼)
At top prod. interval reported below: Same
At total depth: Same

5. LEASE DESIGNATION AND SERIAL NO.: MOO-C-1420-3637

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

9. WELL NO.: #1-28 Cuthair

10. FIELD AND POOL, OR WILDCAT: ~~Wildcat~~ undesignated

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 28, T38S,R22E

14. PERMIT NO.: 43-037-30938 | DATE ISSUED: 9-15-83

12. COUNTY OR PARISH: San Juan | 13. STATE: Utah

| 15. DATE SPUDDED | 16. DATE T.D. REACHED | 17. DATE COMPL. (*Ready to prod.*) | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* | 19. ELEV. CASINGHEAD |
|---|---|---|---|---|
| 12-2-83 | 12-15-83 | N/A | 4882' KB | 4869 |

| 20. TOTAL DEPTH, MD & TVD | 21. PLUG, BACK T.D., MD & TVD | 22. IF MULTIPLE COMPL., HOW MANY* | 23. INTERVALS DRILLED BY | ROTARY TOOLS | CABLE TOOLS |
|---|---|---|---|---|---|
| 6015 | N/A | N/A | → | All | |

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: N/A

25. WAS DIRECTIONAL SURVEY MADE: None

26. TYPE ELECTRIC AND OTHER LOGS RUN: See attached well completion report (Sample, DIFL, CNLD, BCS, NGS)

27. WAS WELL CORED: yes

28. CASING RECORD (*Report all strings set in well*)

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 8 5/8" | 24# K55 | 1600' | 12 1/4" | Circulate to surface | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) |
|---|---|---|---|---|
| | | | | |

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|
| | | |

RECEIVED
SEP 19 1984
DIVISION OF OIL GAS & MINING

31. PERFORATION RECORD (*Interval, size and number*)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---|---|
| | |

33.* PRODUCTION

| DATE FIRST PRODUCTION | PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*) | WELL STATUS (*Producing or shut-in*) |
|---|---|---|
| | | P&A |

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD → | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE → | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---|---|---|---|---|---|---|
| | | | | | | |

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS: Well Completion Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Dick Steedley TITLE Agent for Hrubetz DATE Sept. 17, 1984

*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
|---|---|---|---|
| | | | See attached well completion report |

38. GEOLOGIC MARKERS

| NAME | TOP MEAS. DEPTH | TOP TRUE VERT. DEPTH |
|---|---|---|
| CHINLE | 1926' | |
| DeCHELLY | 2934' | |
| CUTLER | 3058' | |
| CUTLER EVAPERITES | 3640' | |
| HERMOSA | 4690' | |
| ISMAY | 5680' | |
| LOWER ISMAY | 5803' | |
| GOTHIC | 5882' | |
| DESERT CREEK | 5913' | |
| CHIMNEY ROCK | 6002' | |